

**Memorandum to:** David M. Anderson  
**From:** Institutional Animal Care and Use Committee  
**Subject:** Semiannual Report of the Program Review and Facility Inspection  
**Date:** 2 August 2018

This report summarizes results of the IACUC's most recent program review and facility inspection, as required by the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals ([Policy](#)), Section [IV.B.1.-3.](#), the *Guide for the Care and Use of Laboratory Animals* ([Guide](#)), and the Animal Welfare Act ([AWA](#)) regulations, as applicable. Submission of semiannual reports to the Institutional Official is a condition of this institution's Animal Welfare Assurance with the NIH Office of Laboratory Animal Welfare (OLAW).

**Since the last review, the following changes have occurred in the institution's program for animal care and use (PHS Policy [IV.A.1.a.-i.](#)):**

Two new members joined the IACUC and none left the committee.  
The IACUC, working with the Office of animal Welfare, is part way through the review and consolidation/revision of IACUC policies and SOPs. The intent is to provide clarity and consistency for researchers while ensuring animal welfare.  
The IACUC implemented the new policy on annual review of protocols.

## **I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the *Guide*, and the AWA**

All animal care and use at the University of Washington adheres to PHS Policy, the Guide, and the AWA, as described in our Assurance. Within that framework, the IACUC has approved the following departures from PHS Policy, the AWA and the Guide:

- 2 protocols with prolonged restraint (both for mice)
- 3 protocols with housing at non-standard temperatures (2 for mice, 1 for rats)
- 1 general cage height variance for infant non-human primates
- 1 general cage floor-area variance for juvenile non-human primates

Details of these are included in [Appendix C](#).

While not departures, the IACUC has also approved the following exceptions to its policies that implement PHS Policy, the AWA and the Guide:

- 10 protocols with cage size variances (8 for mice, 2 for chicks)
- 5 protocols with wire bottom cages (all mice)
- 53 protocols with multiple major surgeries (7 species)
- 1 protocol with a non-AVMA endorsed euthanasia method (small birds)
- 25 protocols with weaning variances (all mice)
- 11 protocols with other policy variances (10 mice, 1 rats)

Details of these can be reviewed via reports in HoverBoard.

## II. Deficiencies in the Institution's Animal Care and Use Program

Animal Care and Use Program Review Date(s): January - June 2018

- A. There were no deficiencies in the program during this reporting period.  
 B. The following deficiencies have been identified:

12 adverse events were reported to the IACUC and Institutional Official. All of these were also reported to OLAW. See [Appendix A](#) for details.

### **While the following are not considered deficiencies, the IACUC has these suggestions for improvement that will be pursued in the coming year.**

#### **1. Disaster Planning and Emergency Preparedness**

Recommendation:

- a. Ready ability for IACUC to see and review emergency plans (currently not directly accessible by the IACUC when in DCM and WaNPRC internal shared drives).

#### **2. IACUC**

Recommendations:

- a. Develop process for continuing IACUC oversight on all approved pilot projects; perhaps semi-annual update on success/results/decisions by the PI.
- b. Change wording in HoverBoard re: goals and objectives of annual reviews, to better reflect intent and process
- c. Review for the IACUC the back office OAW steps in annual reviews (prior to what the committee sees)
- d. The Chair be encouraged to appoint as DMR someone who did not lead pre-review of the item.

#### **3. IACUC Protocol Review**

Recommendations:

- a. Possible inconsistency in labeling major versus minor surgery. *Discussion led to conclusion that each situation should be decided individually.*
- b. For wild species, add examples of final disposition alternatives.
- c. Can we discern any patterns in non-compliances based on the training/certifications of the researchers?

#### **4. IACUC Membership and Functions**

Recommendations:

- a. Wording regarding site visits should match new policy that permits some being annual rather than semi-annual.
- b. Ensure adequate representation covering taxa and academic units
  - i. Issue of 'volunteer' status not receiving recognition for service – should be a requirement (e.g., SAFS, SEFS). Have units required to appoint someone.

#### **5. IACUC Training**

Recommendations:

- a. Get new members' perspectives on new member training – will vary by their background
- b. Consider outside speakers at meetings to augment training – once or twice per year, in person or via teleconference
- c. Consider using "New IACUC Member information for Reviewing protocols", Jerald Silverman, DVM, U Mass.
- d. Consider reading requirements/recommendations, e.g., Larry Carbone "What Animals Want".
- e. Are there efficiencies we could consider for our monthly meetings to give more time for speakers/discussions?

#### **6. Veterinary Care; Vet Care Sections 03 Surgery; 04 Pain, Distress, Anesthesia and Analgesia; 05 Euthanasia; 06 Drug Storage and Control**

Recommendations:

- a. WaNPRC surgery training being redone (split online and in-person)
- b. Provide IACUC training about what vet services does - how problems are reported and how cases are managed.

**7. Vet Care Sections 01 Clinical Care and Management; 02 Animal Procurement and Transportation/Preventive Medicine**

Recommendations:

- a. Review how staffing challenges may affect veterinary operations, services and existing staff.

**8. General**

- a. Dare-2-Care site needs completion

**III. Deficiencies in the Institution’s Animal Facility**

Animal Facility Inspection Date(s): January - May 2018

- A. There were no deficiencies in the animal facility during this reporting period.
- B. The following deficiencies have been identified

A total of 289 deficiencies were identified during facility inspections over the past six months, summarized in the table below; one was considered significant, the rest minor. 274 have been resolved while 15 are pending corrective action. See [Appendix B](#) for deficiency details.

The significant deficiency involved a litter of mice not weaned when it should have been and a second litter was born in the cage. It was corrected quickly.

	M	S		M	S
Animal Health	3		Personnel Precautions	31	
Drugs	14		Protocol and Procedures	3	
Environment	13		Research Chemicals	21	
Equipment	34		Sanitation	24	
Facility and Furnishings	68		Signage and Information	10	
Feed	9		Supplies	13	
Husbandry	29	1	Use of the Space	1	

**IV. Minority Views**

Select A or B:

- A. No minority views were submitted or expressed.
- B. The following minority views were expressed:

[See attachment.](#)

**V. Status of AAALAC Accreditation**

Reference Assurance: #000523  
 Most Recent AAALAC Site Visit: 11/17/2015 through 11/20/2015  
 Most Recent Full Accreditation issued: 03/22/2016 – 03/21/2019

VI. **Signatures** ([see attached emails](#))

<b>Names of IACUC Members</b>	<b>Signatures</b>
A.B. (Andrew)	See concurrence attached.
A.S. (Aubrey)	See concurrence attached.
C.G. (Chris)	See concurrence attached.
C.H. (Charlotte)	See concurrence attached.
F.R.R. (Ric)	See concurrence attached.
J.B. (Jacqui)	See concurrence attached.
J.E (Jane)	See concurrence attached.
J.F.I. (Jenny)	See concurrence attached.
J.L.S. (Jeff)	
J.M. (Jeanot)	See concurrence attached.
J.P.V.H. (Preston)	
J.S. (Jane)	See concurrence attached.
K.L. (Kristen)	
L.J.E. (Lisa)	See concurrence attached and attached minority view.
M.L. (Molly)	See concurrence attached.
M.S. (Mei)	See concurrence attached.
S.H. (Scott)	See concurrence attached.
S.L. (Steve)	See concurrence attached.
T.B. (Thea)	See concurrence attached.
T.H. (Tess)	See concurrence attached.

**Appendix A Deficiencies in the Institution's Animal Care and Use Program**

<b>Severity</b>	<b>Repeat</b>	<b>Location</b>	<b>Deficiency and Corrective Action Plan</b>	<b>Correction Due Date or Status</b>	<b>Date Complete</b>
significant	no	vivarium	Water bottle inverted, one mouse euthanized. Letter of counsel to the PI, asking response outlining actions to prevent future occurrences.	complete	4/25/18
significant	no	vivarium	Unapproved location for mini-pump in a rat. Letter of counsel to the group asking for how this will be avoided in the future.	complete	2/27/18
Minor	no	vivarium	Unapproved dosage of amiodarone in pigs. Send letter of acknowledgement for self-reporting.	complete	3/20/18
significant	no	vivarium	Mouse pups not properly euthanized. Send a letter of counsel asking the investigator to reiterate the steps that have been taken and acknowledging the promptness in coming forward.	complete	4/2/18
significant	no	vivarium	Tailing of older mice. Send letter of acknowledgement for self-reporting.	complete	3/20/18
significant	no	vivarium	Tailing three older mice. No further action.	complete	4/19/18
significant	no	vivarium	No food in one cage, one mouse died. Letter of counsel to the PI, asking response outlining actions to prevent future occurrences.	complete	4/25/18
significant	no	vivarium and lab	Unapproved fish experimentation. After considerable discussion, the Committee voted to send a letter of reprimand and ask that the PI prepare a specific and actionable plan detailing what he proposes to do differently, and how he will do it, to ensure proper care of research animals and compliance with all laws, regulations and policies by everyone on the protocol. The Committee discussed the response at its 17 May 2018 meeting, with the PI and several lab members in attendance.	complete	5/10/18
significant	no	vivarium	NHP caught in chain of enrichment board, died. Removed all similar equipment; reviewing all items attached to cages.	complete	4/19/18
significant	no	vivarium	Lixit water line unattached, NHP fine. There is a system of double checks in place which worked and found the unhooked line.	complete	4/19/18

Minor	no	vivarium	Double dose of rapamycin. This was self-reported. The animal techs and the research support staff have put necessary steps in place to avoid this in the future.	complete	4/19/18
significant	no	vivarium	Mouse found dead in food hopper.	complete	5/17/18

## Appendix B Deficiencies in the Institution's Animal Facility

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	ARCF (Animal Research & Care Facility) - B141B	Deficiency: B141B: Spray bottle with liquid inside, but unclear what solution it contains, dated 2/27/2018 appears to be expired.	04/12/2018 Status: Complete	3/27/2018
Minor	no	ARCF (Animal Research & Care Facility) - B141B	Deficiency: B141B: Expired Vetbond in PI supply box. This should be discarded.	04/12/2018 Status: Complete	3/27/2018
Minor	no	ARCF (Animal Research & Care Facility) - B141B	Deficiency: B141B: Care logs are incomplete.	04/20/2018 Status: Complete	4/11/2018
Minor	no	ARCF (Animal Research & Care Facility) - B141B	Deficiency: B141B: Loma Pendergraft has not taken the required decentralized training courses.	04/30/2018 Status: Complete	4/23/2018
Minor	no	ARCF (Animal Research & Care Facility) - B164	Deficiency: B164: Hose on the portable sink should be replaced.	04/30/2018 Status: Complete	4/10/2018
Minor	no	ARCF (Animal Research & Care Facility) - B174	Deficiency: B174 (Main housing room): Smell of rodents was very intense in the room, and the room wasn't full. Possible air exchange issues. Corrective Action Plan: Air rebalancing is not complete as the Contractor experienced a family emergency. It's possible the air rebalancing could be contributing to this problem. Since the room is positive relative to the hallway, the odor could move around the building if the pressure gradients aren't correct throughout the building.	05/18/2018 Status: Complete	5/3/2018
Minor	no	ARCF (Animal Research & Care Facility) - B201	Deficiency: B201: Expired ferret vaccines (exp 1/26/18) were thrown away at time of inspection. This was corrected during the visit.	03/23/2018 Status: Complete	3/23/2018

<b>Severity</b>	<b>Repeat</b>	<b>Location</b>	<b>Deficiency and Corrective Action Plan</b>	<b>Correction Due Date and Status</b>	<b>Date Complete</b>
Minor	no	ARCF (Animal Research & Care Facility) - B201	Deficiency: B201: Eyewash needs to be tested and logged every week (last done in Dec '17). Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/12/2018 Status: Complete	4/23/2018
Minor	no	ARCF (Animal Research & Care Facility) - B201	Deficiency: B201: Room needs a room log to ensure it is getting the cleaning, etc. that is needed to maintain the room.	04/12/2018 Status: Complete	4/23/2018
Minor	no	ARCF (Animal Research & Care Facility) - B209	Deficiency: B209: Chewed plastic parts found on floor. Please check room carefully to remove any additional plastic parts that may be hiding, and please also locate the source of this plastic and see what can be done to prevent animals from accessing it (and chewing it) in the future.	04/12/2018 Status: Complete	4/12/2018
Minor	no	ARCF (Animal Research & Care Facility) - B214A	Deficiency: B214A, main housing hallway: Mops were not hung up to dry. This can allow mold/mildew to accumulate. Mop/broom holders have been ordered.	04/12/2018 Status: Complete	4/12/2018
Minor	no	ARCF (Animal Research & Care Facility) - B219	Deficiency: B219: Sewer/drain fly was observed; pests can introduce contamination; the facility should evaluate control/prevention options.	04/12/2018 Status: Complete	4/17/2018
Minor	no	ARCF (Animal Research & Care Facility) - B227	Deficiency: B227 (diet kitchen): Fly was observed; pests can introduce contamination; the facility should evaluate how this insect gained entry.	04/12/2018 Status: Complete	4/17/2018
Minor	no	ARCF (Animal Research & Care Facility) - B239	Deficiency: B239: Eyewash is not checked and recorded. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/27/2018 Status: Complete	4/26/2018
Minor	no	ARCF (Animal Research & Care Facility) - B241	Deficiency: B241: Eyewash is not checked and recorded. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/27/2018 Status: Complete	4/26/2018
Minor	no	ARCF (Animal Research & Care Facility) - B241	Deficiency: B241: Cardboard boxes and fabric covered equipment on the floor are not sanitizable. The cardboard boxes must be off the floor and equipment must be off the floor or in plastic containers.	04/27/2018 Status: Complete	4/27/2018
Minor	no	ARCF (Animal Research & Care Facility) - B255	Deficiency: B255: Wall needs cleaning.	04/27/2018 Status: Complete	4/25/2018

<b>Severity</b>	<b>Repeat</b>	<b>Location</b>	<b>Deficiency and Corrective Action Plan</b>	<b>Correction Due Date and Status</b>	<b>Date Complete</b>
Minor	no	ARCF (Animal Research & Care Facility) - B257	Deficiency: B257: Eyewash is not checked and recorded. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/27/2018 Status: Complete	4/26/2018
Minor	no	ARCF (Animal Research & Care Facility) - B264	Deficiency: B264: Fur on the table, needs to be cleaned.	04/27/2018 Status: Complete	4/25/2018
Minor	no	ARCF (Animal Research & Care Facility) - B271	Deficiency: B271: Install mop hanger.	06/30/2018 Status: Complete	5/9/2018
Minor	no	ARCF (Animal Research & Care Facility) - B271A	Deficiency: B271A: Gash on the right side of the door jamb, about mid-way up the wall.	06/30/2018 Status: Complete	4/9/2018
Minor	no	ARCF (Animal Research & Care Facility) - B273	Deficiency: B273: Eyewash is not checked and recorded. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/27/2018 Status: Complete	4/26/2018
Minor	no	ARCF (Animal Research & Care Facility) - B283	Deficiency: B283: Waffle bowls were in an open bag. Items were tossed, future waffle bowls will be stored in tubs/sealed bins.	04/27/2018 Status: Complete	4/25/2018
Minor	no	ARCF (Animal Research & Care Facility) - B285	Deficiency: B285: EDTA's were expired 1/17/2016. Please discard.	04/27/2018 Status: Complete	4/26/2018
Minor	no	ARCF (Animal Research & Care Facility) - B285	Deficiency: B285: Eyewash is not checked and recorded. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/27/2018 Status: Complete	4/26/2018
Minor	no	ARCF (Animal Research & Care Facility) - B285	Deficiency: B285: Drawer full of autoclaved items from years back. Tools should be gathered, bagged and labeled as expired.	04/27/2018 Status: Complete	4/26/2018
Minor	no	Big Beef Creek -	Deficiency: Incubation room: Due to problems with either the thermostat of the heater or the electrical circuit for this unit, the ceiling mounted heater is not turning on/off automatically to dry out the room. As a result, the walls and ceiling have visible water present. If this issue is not resolved soon mold will begin to grow inside of this room. Corrective Action Plan: On the electricians schedule to install new heater on Friday.	05/04/2018 Status: Complete	5/4/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Brotman Laboratory Spaces - 319	Deficiency: 319: Eyewash is not being checked weekly (it looks like it was checked one time in December 2017). Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	01/30/2018 Status: Complete	1/31/2018
Minor	no	Brotman Laboratory Spaces - 424	Deficiency: 424: Box belonging to the Tang Lab, which contains multiple conical vials that are inadequately labeled, and there is an expired 1L bag of saline which should be discarded. Conical vials include PBS (not clear if being used in animals), and unlabeled 50 ml conical vial with a sediment, an unlabeled vial that probably contains betadine, and a conical vial containing saline and Coomassie Blue labeled 10/10/12. Any substances that would be administered to animals should be labeled with expiration dates. Substances not used in animals should be clearly labeled with contents and it should be clear that they are not for animal use.	01/30/2018 Status: Complete	1/30/2018
Minor	no	Brotman Vivarium -	Deficiency: Entry door: Wall chips present directly to the left of the entry door inside the room. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - A39	Deficiency: A39: Walls need repairs. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - A41	Deficiency: A41: Member of the Schwartz lab was separating out weaning female mice from different litters (22d of age) into one cage for euthanasia. The cage was overcrowded (>14 pups). The investigator was counseled at that time that this was an overcrowded cage and he indicated he would separate the mice. Guidelines for euthanasia near the euthanasia station in the procedure rooms say "do not overcrowd" the cage and the UW IACUC Euthanasia Policy says "Animals must be transported and euthanized in a method that minimizes stress. Inhaled agents should be administered in the home cage of rodents when possible. If animals need to be grouped into one cage, they should be combined only with compatible cohorts of the same species. Chambers must not be overloaded..."	03/02/2018 Status: Complete	2/14/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Brotman Vivarium - A43	Deficiency: A43: Bin of ready-to-use water hydropacs in the animal room was without a lid and uncovered. The host indicated that bins are open during cage change, but there was no cage change occurring in the animal room and no animal technician present. To prevent contamination, these bins should be covered when not in use.	02/23/2018 Status: Complete	2/2/2018
Minor	no	Brotman Vivarium - A43	Deficiency: A43: Metal ring surrounding the fire sprinkler was loose from the ceiling and dangling around the sprinkler.	05/31/2018 Status: Complete	2/14/2018
Minor	no	Brotman Vivarium - B28	Deficiency: B28 (Hallway outside of cage washer room). Immediately outside of B28 are 3 foot long cracks in the floor. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - B30	Deficiency: B30 (Irradiator room): Cabinet drawer with full depth cracks and leaking bottles of machine oil.	05/31/2018 Status: Complete	2/9/2018
Minor	no	Brotman Vivarium - B42	Deficiency: B42 (Clean side of cagewash): Required PPE for working with hydrochloric acid was not present in the room. This was placed during the site visit.	02/02/2018 Status: Complete	2/2/2018
Minor	no	Brotman Vivarium - B42	Deficiency: B42: Dirty cage wash. Mops/brooms need to be stored up off the floor.	02/23/2018 Status: Complete	2/5/2018
Minor	no	Brotman Vivarium - B42	Deficiency: B42: Drains were dirty. Please develop a drain cleaning schedule.	03/02/2018 Status: Complete	2/5/2018
Minor	no	Brotman Vivarium - B42	Deficiency: B42: Floor has numerous cracks and chipping spots/surfaces. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	yes	Brotman Vivarium - B46	Deficiency: B46 (Tian): During a quick inspection of breeding cages, there were examples of missing litter DOBs on the cage card and failure to wean leading to overcrowded cages. The host also indicated that DCM spends a lot of time ultimately managing the PI's overcrowded breeder cages. Cage with no litter DOB on the cage card.	02/23/2018 Status: Complete	2/12/2018
Minor	no	Brotman Vivarium - B46	Deficiency: B46 (Tian): Breeder cage with large litter of pups that appeared to be of weaning age, but there was no DOB on the cage card. Please confirm the DOB.	02/23/2018 Status: Complete	2/12/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Brotman Vivarium - B46	Deficiency: B46: Wall repairs needed – left side. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Significant	no	Brotman Vivarium - B46	Deficiency: B46 (Tian): Litter DOB 1/5/18 – not weaned (so 28 days at time of visit and w/o a posted weaning variance) and there was a new litter born 2/2.	02/23/2018 Status: Complete	2/12/2018
Minor	no	Brotman Vivarium - C31	Deficiency: C31 (mice room): SPF room did not have signage on the door. This was corrected after the visit.	02/02/2018 Status: Complete	2/2/2018
Minor	no	Brotman Vivarium - C34	Deficiency: C34: BSC log is out of date.	02/23/2018 Status: Complete	2/5/2018
Minor	no	Brotman Vivarium - C35	Deficiency: C35 (Rabbit room): 4 rabbits in this room are singly caged despite the protocol saying that they should be co-housed. The 4 rabbits are in bottom side by side cages with plexiglass dividers inserted to prevent the rabbits from being co-housed. The staff did not know why they were singly housed.	02/23/2018 Status: Complete	2/15/2018
Minor	no	Brotman Vivarium - C37	Deficiency: C37: Gouges on the wall. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - P154	Deficiency: P154 (Procedure): Paint cracks on ceiling. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - P154B	Deficiency: P154B (empty mouse room): Chips in wall (blue painted wall). Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - P164A	Deficiency: P164A (Pig room): "Fred" had no enrichment in his cage. This was corrected during the inspection.	02/02/2018 Status: Complete	2/2/2018
Minor	no	Brotman Vivarium - P165	Deficiency: P165 (Procedure room): Monthly BSC log was not up to date. Last entry was 10/10/17.	02/23/2018 Status: Complete	2/5/2018
Minor	no	Brotman Vivarium - P167A	Deficiency: P167A (Biohazard): Paint cracks around door frame. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	Brotman Vivarium - P168	Deficiency: P168 (Mice room): Significant dust around the edges of the light fixtures.	02/23/2018 Status: Complete	2/12/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Brotman Vivarium - P169	Deficiency: P169 (Mice room): There are some significant divots/gouges in the walls on the left side of the room. These are likely related to the cage racks being moved around. Corrective Action Plan: Requesting extension to 10/31/18 on 5/17/18 due to moving animals for repair.	10/31/2018 Status: Pending Corrective Action	
Minor	no	CHDD Laboratory Spaces - 55	Deficiency: 055: Box of expired saline was also identified. Group removed saline from the room during the visit, and will dispose of it.	01/17/2018 Status: Complete	1/17/2018
Minor	no	CHDD Laboratory Spaces - 55	Deficiency: 055: Wall between the sink and the lab bench with the scale is damaged and in need of repair. OAW has submitted a Work Order and Facilities Services will contact to schedule the work.	03/31/2018 Status: Complete	1/25/2018
Minor	no	CHDD Laboratory Spaces - 56E	Deficiency: 056E: Fish incubator has been removed from this space. Bottle of expired cisplatin was found, and should be disposed of.	02/02/2018 Status: Complete	1/17/2018
Minor	no	CHDD Laboratory Spaces - 68A	Deficiency: 068A: Isoflurane induction box is in disrepair (there is a crack near one of the connection points), presenting an occupational health hazard. Please repair or replace the induction box to ensure that all connections are sealed and secure.	02/28/2018 Status: Complete	1/22/2018
Minor	no	CHDD Vivarium - CD076A	Deficiency: 076A: Door to this space does not close completely. It appears as though the metal door guard (at the bottom of the door) is damaged, preventing the door from shutting completely.	02/28/2018 Status: Complete	1/22/2018
Minor	no	Foege Vivarium - N031	Deficiency: N031 (procedure room): An unlabeled 50 mL conical tube with clear liquid in the gray cabinet.	02/09/2018 Status: Complete	2/6/2018
Minor	no	Foege Vivarium - N037	Deficiency: N037: Biosafety Cabinet "Monthly" Hood-filter was not changed/documented on log sheet for the following months: 11/17 and 12/17.	02/09/2018 Status: Complete	3/21/2018
Minor	no	Foege Vivarium - N039A	Deficiency: N039A (biohazard room): Expired Bone Wax (exp 2011) must be discarded.	02/09/2018 Status: Complete	2/9/2018
Minor	no	Foege Vivarium - N039A	Deficiency: N039A (biohazard room): The door sweep brushes were very dirty - they are catching all kinds of debris. For example, possible mop strand fibers from when the AT mops the floor as well as clumped dust bunnies, etc. The door sweep brush heads need to be cleaned and all debris that have accumulated on them removed on a regular basis.	02/09/2018 Status: Complete	1/23/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Foege Vivarium - N040	Deficiency: N040: Hood cleaning log has not been completed since October 2017 (should be cleaned monthly).	02/09/2018 Status: Complete	3/21/2018
Minor	no	Foege Vivarium - N040	Deficiency: N040: Daily care log was not completed for Thursday, 1/18/18.	02/09/2018 Status: Complete	2/5/2018
Minor	no	Foege Vivarium - N045	Deficiency: N045 (rat housing): Expired sunflower seeds (exp 2/16), expired yogurt drops (exp 11/24/17), unlabeled & expired bag of some type of mixed food treat (exp 9/22/13).	02/09/2018 Status: Complete	1/19/2018
Minor	no	Foege Vivarium - N045	Deficiency: N045: Paint chips on lower corner of main inside door. OAW will submit a Work Order and Facilities Services will contact to schedule the work.	03/31/2018 Status: Complete	2/15/2018
Minor	no	Foege Vivarium - N046	Deficiency: N046 (procedure room): Expired 70% Alcohol, expired Povidone/Iodine Scrub (exp 10/16). Please discard.	02/09/2018 Status: Complete	2/9/2018
Minor	no	Foege Vivarium - N046	Deficiency: N046 (procedure room): Supplies in cardboard/paper bucket without lid is not sanitizable. Please transfer supplies into a plastic container with a lid.	02/09/2018 Status: Complete	1/23/2018
Minor	no	Foege Vivarium - N049	Deficiency: N049: Per Facility Supervisor, frequency is now 8 months, not 6 months as indicated on current forms in entire facility. These forms will need to be updated to reflect new change-out frequency (i.e., change at 8 months instead of 6 months).	02/09/2018 Status: Complete	1/23/2018
Minor	no	Foege Vivarium - N055	Deficiency: N055: Outdated lab contact sheet on rack F63 (contact left UW a few years ago).	02/09/2018 Status: Complete	1/29/2018
Minor	no	Foege Vivarium - N055	Deficiency: N055: Several mice on rack F63B were individually housed. Protocols (4359-01, 4359-03) are not approved for individual housing.	02/09/2018 Status: Complete	1/24/2018
Minor	no	Foege Vivarium - N056	Deficiency: N056 (procedure room): Expired 75% Ethanol. Please dispose of.	02/09/2018 Status: Complete	1/24/2018
Minor	no	Foege Vivarium - N056	Deficiency: N056 (procedure room): Biosafety Cabinet "Monthly" Hood-filter was not changed/documented on log sheet for the following months: 10/17 and 12/17.	02/09/2018 Status: Complete	3/5/2018
Minor	no	Foege Vivarium - N057	Deficiency: N057: Sick animal identified. May have been dehydrated (gel cup was empty), speculation by visitor and DCM personnel. DCM personnel submitted a sick animal report to VS right away. Please provide an update on the animal.	02/02/2018 Status: Complete	1/19/2018
Minor	no	Foege Vivarium - N057	Deficiency: N057: Weaning variance signs were out of date (listed old protocol expiration date).	02/09/2018 Status: Complete	1/26/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Friday Harbor Laboratories - LAB 11	Deficiency: Room #11-111: Cracked south facing large window, evaluate damage and repair as needed before used for housing animals for research endeavors this coming summer sessions.	06/30/2018 Status: Complete	6/7/2018
Minor	no	Guthrie Laboratory Spaces - 28C1	Deficiency: 028C: Curtains are due to be cleaned. Task scheduled for this coming week.	04/30/2018 Status: Complete	4/27/2018
Minor	no	Guthrie Laboratory Spaces - 28D	Deficiency: 028D (surgery suite): Floor is dirty. Please sweep and mop clean. There are also purple splatters on the door. Group has tried to clean these off, but regular cleaning is not effective. Possible to repaint?	04/30/2018 Status: Complete	4/27/2018
Minor	no	Guthrie Laboratory Spaces - 342B	Deficiency: 342B: This space is currently not being used. The floor has a lot of scuffs and dark marks. Group mentioned that they have tried to clean the floor to remove the scuffs, but regular mopping is not effective (marks are a result of cage of previous cage wash leaks/ceiling damage). Please have the floor professionally cleaned/repainted.	04/30/2018 Status: Complete	4/30/2018
Minor	no	Guthrie Laboratory Spaces - 355	Deficiency: 355: Tape covering light switch should be altered by Facilities Services. OAW has submitted a Work Order and Facilities Services will contact to schedule the work.	06/30/2018 Status: Complete	5/8/2018
Minor	no	Guthrie Laboratory Spaces - 408A	Deficiency: 408A (accelerometer booth): Quite a bit of rust in and around recording set up. Please remove rust and clean prior to next use.	04/30/2018 Status: Complete	4/30/2018
Minor	no	Guthrie Laboratory Spaces - 409	Deficiency: 409: Floor coating around drain and along corners is chipped. Please repair and repaint. OAW has submitted a Work Order and Facilities Services will contact to schedule the work.	06/30/2018 Status: Complete	5/21/2018
Minor	no	Guthrie Laboratory Spaces - 409A	Deficiency: 409A: Floor coating around drain and along corners is chipped. Please repair and repaint. OAW has submitted a Work Order and Facilities Services will contact to schedule the work.	06/30/2018 Status: Complete	5/21/2018
Minor	no	Guthrie Laboratory Spaces - 416	Deficiency: 416: Soiled cardboard box must be removed.	05/15/2018 Status: Complete	5/5/2018
Minor	no	Guthrie Laboratory Spaces - 421	Deficiency: 421: Sparrow in the recording chamber was observed to have a curled foot with very long toenails, such that the bird could not grip the perch. Please consult with Dr. Tracy Bennett or Dr. Jennifer Graham (our avian veterinarians) to determine if additional care is needed (e.g., regular trimming of toenails).	04/27/2018 Status: Complete	4/23/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Guthrie Laboratory Spaces - 44 C	Deficiency: 044C: Chips on floor need repair. Please repair so that the floor can be properly cleaned and sanitized. OAW has submitted a Work Order and Facilities Services will contact to schedule the work. Corrective Action Plan: Extension request to 9/30/18 on 5/17/18.	09/30/2018 Status: Pending Corrective Action	
Minor	no	Guthrie Laboratory Spaces - 52	Deficiency: 052: F/AIR canisters must be weighed after each use, recorded, and disposed of when appropriate mass has been gained by canister. The F/AIR canister must be disposed of through EH&S, Chemical Waste Collection. Please contact EH&S at <a href="mailto:chmwaste@uw.edu">chmwaste@uw.edu</a> to request pickup for disposal. More information can be found on the EH&S website: <a href="http://www.ehs.washington.edu/epowaste/chemwaste.shtml">http://www.ehs.washington.edu/epowaste/chemwaste.shtml</a>	05/31/2018 Status: Complete	5/16/2018
Minor	no	Guthrie Laboratory Spaces - 56	Deficiency: 056: Low humidity (<30%) one day this week. This event was not reported. Please report out of range temperature or humidity events to Vet Services and the Environmental Monitoring Coordinator ( <a href="mailto:matt87@uw.edu">matt87@uw.edu</a> ). Out of range temperature events should be reported at each instance, and out of range humidity events should be reported at first instance and then monthly thereafter if continuous.	05/01/2018 Status: Complete	5/2/2018
Minor	no	Guthrie Laboratory Spaces - ROOF	Deficiency: Guthrie aviary: Floors within aviaries are extremely slippery, particularly when wet, presenting an occupational hazard. Researchers report several near misses even when wearing flat, rubber soled shoes. Possible to resurface these areas to be less slippery? OAW has submitted a Work Order and Facilities Services will contact to schedule the work.	08/31/2018 Status: Pending Corrective Action	
Minor	no	Guthrie Vivarium - 369C	Deficiency: 369C: Users of centralized room were placing black duct tape along with other types of tapes and paper onto cage bottoms to make them impermeable to light. These surfaces were not sanitizable and group needs to find an appropriate alternative like painting.	05/15/2018 Status: Complete	4/30/2018
Minor	no	Guthrie Vivarium - 369C	Deficiency: 369C: Two of these cage bottom containers are full of soiled bedding/feces which needs to be cleaned and group needs to clean these containers after every use.	05/15/2018 Status: Complete	4/30/2018

<b>Severity</b>	<b>Repeat</b>	<b>Location</b>	<b>Deficiency and Corrective Action Plan</b>	<b>Correction Due Date and Status</b>	<b>Date Complete</b>
Minor	no	Guthrie Vivarium - 369D	Deficiency: 369D: Users of centralized room were placing black duct tape along with other types of tapes and paper onto cage bottoms to make them impermeable to light. These surfaces were not sanitizable and group needs to find an appropriate alternative like painting.	05/15/2018 Status: Complete	4/30/2018
Minor	no	Guthrie Vivarium - 369D	Deficiency: 369D: Two of these cage bottom containers are full of soiled bedding/feces which needs to be cleaned and group needs to clean these containers after every use.	05/15/2018 Status: Complete	4/30/2018
Minor	no	Guthrie Vivarium - 369F	Deficiency: 369F: Users of centralized housing room were placing paper towels under the legs of table to level table so their balance was level. Vivarium staff removed paper at time of visit. We would like the group in question to find an appropriate alternative to using paper towels as a wedge/level.	05/31/2018 Status: Complete	4/23/2018
Minor	no	Hitchcock Vivarium - 118	Deficiency: 118 suite: Eggs and spinach from the cafeteria were labeled with a date (4/6/18), but it is not clear whether or not this was an expiration date. All food items in the refrigerator should be clearly labeled with the expiration date.	04/25/2018 Status: Complete	4/9/2018
Minor	no	Hitchcock Vivarium - 118	Deficiency: 118 suite: Escaped fledgling bird present in 118B, captured during site visit. It was determined that this bird escaped out of a gap between the caging and the nest box that was affixed to the side of the cage. The cage door openings are larger than the nest box. The nest boxes can be positioned in the middle of the opening so that there is a smaller space on either side (not large enough for a bird to escape); however, there is some risk of a bird becoming trapped in the smaller space. The short term solution was to reposition the nest box so that birds should not be able to escape. There should be a more permanent solution, which would both prevent escape as well as minimize the risk of entrapment. The bird was initially put back into a small cage with food and water, and then put back into the original cage once it was clear which cage it came from. DCM notified vet services and the group.	04/25/2018 Status: Complete	4/10/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HR&T Laboratory Spaces - 312	Deficiency: 312: Eyewash needs to be flushed and logged weekly, not monthly. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	02/01/2018 Status: Complete	1/18/2018
Minor	no	HR&T Laboratory Spaces - 327	Deficiency: 327: Clidox bottle should be labeled with dilution and date made up.	02/01/2018 Status: Complete	1/30/2018
Minor	no	HR&T Laboratory Spaces - 520E	Deficiency: 520E: Gas tanks are not held securely by the chains that are in place; chains need to be adjusted so tanks are held firmly in place and cannot slip out.	02/01/2018 Status: Complete	1/31/2018
Minor	no	HR&T Laboratory Spaces - 520E	Deficiency: 520E: Eyewash needs to be flushed and logged weekly. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	02/01/2018 Status: Complete	1/30/2018
Minor	no	HR&T Laboratory Spaces - B018A	Deficiency: B018A: Syringe found in regular trash, needs to be discarded in appropriate Sharps container.	02/01/2018 Status: Complete	1/30/2018
Minor	no	HR&T Laboratory Spaces - B018A	Deficiency: B018A: Clidox bottle should be labeled with dilution and date made up.	02/01/2018 Status: Complete	1/30/2018
Minor	no	HR&T Vivarium - SB006A	Deficiency: SB006A: Expired fluorescein and saline (1/9/18) must be disposed of.	02/09/2018 Status: Complete	1/29/2018
Minor	no	HR&T Vivarium - SB032	Deficiency: SB032 (Clean cagewash): Room log says that the floor should be mopped 4x/week, but during the week of 1/8 it was initialed as only being done once.	02/09/2018 Status: Complete	1/26/2018
Minor	no	HR&T Vivarium - SB032	Deficiency: SB032 (Clean cagewash): Floor cracks near water bottle filler and autoclave. DCM to submit a work order to HR&T Physical Plant. Corrective Action Plan: Extension requested to 5/31/18 on 4/12/18. Updated correction due date to 6/8/18.	06/08/2018 Status: Complete	5/25/2018
Minor	no	HR&T Vivarium - SB049	Deficiency: SB049: Eyewash is not being checked weekly. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	02/09/2018 Status: Complete	1/16/2018
Minor	no	HR&T Vivarium - SB056	Deficiency: SB056: Isoflurane machine needs to be re-calibrated prior to any new animal work (last calibrated 12/17). Please post a sign stating "Do Not Use Until Calibrated." Please contact the vendor to determine the next service date.	02/28/2018 Status: Complete	2/15/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HR&T Vivarium - SB060	Deficiency: SB060 (bedding storage): Front left corner of ceiling needs patching and painting. Please submit a work order to HR&T Physical Plant.	03/31/2018 Status: Complete	2/28/2018
Minor	no	HSB Laboratory Spaces -	Deficiency: D425: Expired ketamine must be disposed of. Please arrange drug disposal through the Drug Services website: <a href="https://depts.washington.edu/drugsvcs/home/">https://depts.washington.edu/drugsvcs/home/</a>	05/09/2018 Status: Complete	4/18/2018
Minor	no	HSB Laboratory Spaces - AA048F	Deficiency: Group had a partially used F/AIR canister hanging out in a cabinet in the imaging suite that was not in a sealed ziploc bag (thereby off gassing). Visitors informed the lab contact that it needs to be stored in a sealed ziploc bag and it was corrected at the time of visit.	01/09/2018 Status: Complete	1/9/2018
Minor	no	HSB Laboratory Spaces - AA048F	Deficiency: Baseboard is located in the outer entry area where animals come in from the hallway prior to going into the suite. B020 was the number painted on the double doors to an electrical closet in that entry area (the baseboard to the right facing of the doors has either peeled off or is coming off. It looks like whoever put it up used scrap pieces (x3-5) to cover an area of no more than 8ft. OAW submitted a Work Order request.	02/28/2018 Status: Complete	2/2/2018
Minor	no	HSB Laboratory Spaces - BB1502	Deficiency: BB1502: Expired Ketamine must be labeled "Expired" and disposed of properly.	05/02/2018 Status: Complete	4/18/2018
Minor	no	HSB Laboratory Spaces - BB1502	Deficiency: BB1502: Surgery log was not completed with surgery time. Please retrain techs to record the surgery time in the log.	05/02/2018 Status: Complete	4/18/2018
Minor	no	HSB Laboratory Spaces - BB1553	Deficiency: BB1553: Expired Bacteriostatic water (Feb. 2018) must be labeled "Expired" disposed of properly.	05/02/2018 Status: Complete	4/18/2018
Minor	no	HSB Laboratory Spaces - D218	Deficiency: D218: Expired drugs must be labeled "Expired" and picked up by Drug Services. Please arrange drug disposal through the Drug Services website: <a href="https://depts.washington.edu/drugsvcs/home/">https://depts.washington.edu/drugsvcs/home/</a>	05/02/2018 Status: Complete	5/2/2018
Minor	no	HSB Laboratory Spaces - F518A	Deficiency: F518A: Eyewash needs to be tested and logged every week (last done in October '17). Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/17/2018 Status: Complete	4/17/2018
Minor	no	HSB Laboratory Spaces - G530A	Deficiency: G530A: Eyewash flush and log is being done twice a month; needs to be weekly in an animal space. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	05/04/2018 Status: Complete	4/23/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB Laboratory Spaces - G530A	Deficiency: G530A: One of two chairs next to the fish imaging platforms has exposed cloth that cannot be sanitized. Please remove and replace with a sanitizable one.	05/04/2018 Status: Complete	4/23/2018
Minor	no	HSB Laboratory Spaces - H428	Deficiency: H428: Isoflurane machine needs to be calibrated. Please post a sign stating "Do Not Use Until Calibrated." Please contact the vendor to determine the next service date.	05/11/2018 Status: Complete	4/13/2018
Minor	no	HSB Laboratory Spaces - J430	Deficiency: J430: Paper tape is not sanitizable. Please replace with electrical tape.	04/03/2018 Status: Complete	3/19/2018
Minor	no	HSB Laboratory Spaces - J430	Deficiency: J430: Cloth chair is not sanitizable. Please remove chair and replace with a sanitizable chair.	04/03/2018 Status: Complete	3/19/2018
Minor	no	HSB Laboratory Spaces - J430	Deficiency: J430: Cover surge outlet with electrical tape.	04/03/2018 Status: Complete	3/19/2018
Minor	no	HSB Laboratory Spaces - J611L	Deficiency: J611L: Unlabeled bottle containing Roccal-D. Secondary bottles must be labeled with the contents of the primary bottle.	05/02/2018 Status: Complete	5/3/2018
Minor	no	HSB Laboratory Spaces - K560	Deficiency: K560: Torn chair is not sanitizable. Please replace with a sanitizable chair.	04/03/2018 Status: Complete	3/19/2018
Minor	no	HSB Laboratory Spaces - K560	Deficiency: K560: Sign on hood is not sanitizable. All posted paper should be encased in a plastic sleeve or laminated.	04/03/2018 Status: Complete	3/13/2018
Minor	no	HSB Laboratory Spaces - K561	Deficiency: K561: Expired gloves were labeled for non-survival surgery. This was corrected during the visit.	03/13/2018 Status: Complete	3/13/2018
Minor	no	HSB Laboratory Spaces - K561	Deficiency: K561: Expired 0.5% iodine and betadine. Please discard.	04/03/2018 Status: Complete	3/22/2018
Minor	no	HSB Laboratory Spaces - K561	Deficiency: K561: Broom and mop on the floor. Please install hooks to hang the broom and mop on the wall.	04/30/2018 Status: Complete	3/14/2018
Minor	no	HSB Laboratory Spaces - NW141A	Deficiency: NW141A: Mice were recently kept overnight while room temp reached below 68F, per daily log. Researcher had not reported this to Vet services and will do so for this past occurrence and for any future. Researcher reported providing extra nesting materials.	05/11/2018 Status: Complete	5/3/2018
Minor	no	HSB Laboratory Spaces - NW141A	Deficiency: NW141A: Recently purchased anesthesia machine did not have an installation date or 'next service needed' date marked on it. Correct dates should be determined and marked on the machine.	05/31/2018 Status: Complete	4/19/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB Laboratory Spaces - NW141A	Deficiency: NW141A: Seven compressed gas cylinders were not properly secured. Please refer to EH&S (ehsbio@uw.edu) to identify and install an appropriate rack or wall securement for the small (2' tall, 4' diameter) tanks.	05/31/2018 Status: Complete	5/1/2018
Minor	no	HSB Laboratory Spaces - NW141A	Deficiency: NW141A: Room is consistently too cold – 65F at time of visit (rodent lower limit is 68F). Researcher reported contacting Facility Services several times, but it is not yet corrected. OAW will contact FS about the issue. Background: Room is approved for occasional overnight housing. Room has a sensaphone and was previously capable of maintaining appropriate temperatures. Room is used to prep and anesthetize rodents being irradiated in either NN143G or NN143J, which house systems that cannot be relocated. (Room also used to house an imaging system that is now in the ARCF.) The need for overnight housing appears to be caused by timing of when animals arrive from outside institutions for irradiation, when irradiation can be scheduled, and when animals can be picked back up by the outside institution. T-wing vivarium is also approved to house the visiting rodents. Opinion: If the room cannot be brought up to spec for temperatures, we would have to disallow it for overnight housing.	06/30/2018 Status: Complete	5/1/2018
Minor	no	HSB Laboratory Spaces - RR410	Deficiency: RR410: Isoflurane equipment certification has expired. Signage needs to be placed on the machine to indicate that it should not be used until it has been re-certified. This was corrected during the visit.	03/28/2018 Status: Complete	3/28/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: HSB RR711: Unlabeled syringes. Please label.	04/02/2018 Status: Complete	3/19/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Expired Betadine. Please discard.	04/02/2018 Status: Complete	3/20/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Torn chair is not sanitizable. Please remove or replace chair.	04/02/2018 Status: Complete	3/20/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Eyewash was not flushed weekly. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	04/02/2018 Status: Complete	3/20/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Approximately 6 F/Air canisters are in the hood. The F/AIR canister must be disposed of through EH&S, Chemical Waste Collection. Please contact EH&S at <a href="mailto:chmwaste@uw.edu">chmwaste@uw.edu</a> to request pickup for disposal. More information can be found on the EH&S website: <a href="http://www.ehs.washington.edu/epowaste/chemwaste.shtml">http://www.ehs.washington.edu/epowaste/chemwaste.shtml</a>	04/30/2018 Status: Complete	4/26/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Wood edge on counters and cabinets need to be sealed. OAW will submit a Work Order and Facilities Services will contact to schedule the work.	06/30/2018 Status: Complete	3/21/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Floor needs to be cleaned and waxed.	06/30/2018 Status: Complete	4/19/2018
Minor	no	HSB Laboratory Spaces - RR711	Deficiency: RR711: Open area below counter must be covered. OAW will submit a Work Order and Facilities Services will contact to schedule the work.	06/30/2018 Status: Complete	3/26/2018
Minor	no	HSB Laboratory Spaces - RR747	Deficiency: RR747: Eyewash needs to be tested and logged every week. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	06/01/2018 Status: Complete	5/14/2018
Minor	no	HSB Laboratory Spaces - RR747	Deficiency: RR747: Gas tanks must be well-secured so they cannot tip over or come loose. Tanks must be secured with a second lower set of chain to ensure the tank cannot slide forward.	06/01/2018 Status: Complete	5/11/2018
Minor	no	HSB: 6th Floor Vivarium - AA702	Deficiency: AA702: Dirty dishes in the sink. This is at least the 3rd time that inspectors have found dirty dishes in this sink. STOP USING THIS SINK FOR WASHING DISHES!!!	02/16/2018 Status: Complete	1/30/2018
Minor	no	HSB: 6th Floor Vivarium - C609	Deficiency: C609: Monthly care log has no entry for January (last entry 12/14/17).	02/16/2018 Status: Complete	2/21/2018
Minor	no	HSB: 6th Floor Vivarium - C609	Deficiency: C609: Are there any sentinels in this room? Should there be? Racks are not ventilated, but sentinels not seen. Not sure what's going on.	02/16/2018 Status: Complete	2/21/2018
Minor	no	HSB: 6th Floor Vivarium - C609	Deficiency: C609: Week of 1/22/18 low temps, all below 68 degrees (67.3). Please ensure that the room temperature is within acceptable ranges and report to Vet Services if animals are affected by the temperature.	02/16/2018 Status: Complete	2/21/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB: 6th Floor Vivarium - C609	Deficiency: C609: Rack 10 does not appear to have been changed since 7/2016. Who is responsible for changing/cleaning the static racks in this room? Is it being done? Changes must be done on schedule and logged.	02/16/2018 Status: Complete	2/21/2018
Minor	no	HSB: 6th Floor Vivarium - C609	Deficiency: C609: Drain at rear right side of room (between two back bays) needs to be cleaned, feces on floor to right of drain. Corrective Action Plan: Updating correction due date for Physical Plant.	03/31/2018 Status: Complete	4/12/2018
Minor	no	HSB: 6th Floor Vivarium - C613	Deficiency: C613: Weekly rack prefilter change log says last change was in July 2017. Prefilters must be changed on schedule and logged.	02/16/2018 Status: Complete	2/22/2018
Minor	no	HSB: 6th Floor Vivarium - C615	Deficiency: C615: Temperature in this procedure room is regularly getting down below 64 degrees. Is that OK for this room, given its use?	02/16/2018 Status: Complete	2/21/2018
Minor	no	HSB: 6th Floor Vivarium - C618	Deficiency: C618: Control chow for high fat diet expired 07/2017.	02/16/2018 Status: Complete	2/2/2018
Minor	no	HSB: 6th Floor Vivarium - C621	Deficiency: C621: Vials of diluted Ketoprofen on each of the two surgery tables were labeled 11/7/17. Research group is encouraged to check with Vet Services to see how long diluted stock is good to use, and label vials with expiration dates when making them up.	02/16/2018 Status: Complete	2/21/2018
Minor	no	HSB: 6th Floor Vivarium - C621	Deficiency: C621: Sink in room was filled with biofouled water, even though daily room log indicated that sink was being regularly cleaned. Sink needs to be drained and cleaned. Corrective Action Plan: Updating correction due date for Physical Plant.	03/31/2018 Status: Complete	4/12/2018
Minor	no	HSB: 6th Floor Vivarium - D604	Deficiency: D604: 125mL glass bottle of 0.9% saline had been labelled with a date that was hard to read. Please label clearly.	02/16/2018 Status: Complete	2/20/2018
Minor	no	HSB: 6th Floor Vivarium - D604	Deficiency: D604: 13 mL plastic conical tube labeled only with 'Saline'; be sure to include date.	02/16/2018 Status: Complete	2/20/2018
Minor	no	HSB: 6th Floor Vivarium - G608	Deficiency: Hallway outside of G608: Dog treat dispenser contains leftover food particles. Please clean the dispenser.	02/16/2018 Status: Complete	1/30/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB: 6th Floor Vivarium - G619	Deficiency: Hallway outside of G619: Animal transport cart belonging to the Zweifel lab was covered with mouse fecal pellets. Please have the group clean off the pellets and ensure that the cart is cleaned after animal transport (if it becomes dirty).	02/16/2018 Status: Complete	1/30/2018
Minor	no	HSB: 6th Floor Vivarium - G619	Deficiency: Hallway (near G619/G620): Ceiling tile out of place, which could provide an entry point for vermin. Please have the tile resealed to maintain the integrity of the ceiling. OAW will submit a Work Order and Facilities Services will contact to schedule the work.	03/31/2018 Status: Complete	2/5/2018
Minor	no	HSB: K-Wing Vivarium -	Deficiency: K002A (Quarantine): Large temperature fluctuations and low humidity recorded on door sheet for several days. It looks like this may be due to a bad thermometer/hygrometer. However, there is no notation on the door sheet that the supervisor was notified.	02/02/2018 Status: Complete	1/17/2018
Minor	no	HSB: K-Wing Vivarium -	Deficiency: Dirty Side Cagewash: Cardboard box on floor containing autoclave parts needs to be switched to a plastic box. Please clean plastic shelves containing vedadine and fan (and clean the fan).	02/02/2018 Status: Complete	1/15/2018
Minor	no	HSB: K-Wing Vivarium -	Deficiency: K002A (Quarantine): No notation on the log that filter changes were done in the hood since September.	02/02/2018 Status: Complete	1/17/2018
Minor	no	HSB: K-Wing Vivarium - I015A	Deficiency: I015A: Expired bottle of liquid motrin, baggie containing year old dwr/carprofen with no expiration date, tubes of heparinized saline with no exp date and other inadequately labeled tubes, empty but expired bottle of isoflurane was also found in the refrigerator.	02/02/2018 Status: Complete	1/18/2018
Minor	no	HSB: K-Wing Vivarium - I015A	Deficiency: I015A: Expired gallon of 10% formalin belonging to an unknown group.	02/02/2018 Status: Complete	1/18/2018
Minor	no	HSB: K-Wing Vivarium - I015A	Deficiency: I015A: Light tripod is beginning to rust. Please remove or paint. Corrective Action Plan: DCM submitting work order in progress and updating correction due date to 3/31/18.	03/31/2018 Status: Complete	3/21/2018
Minor	no	HSB: K-Wing Vivarium - I015B	Deficiency: I015B: Wire cage tops on one rack were either in need of changing or change was not recorded on rack.	02/02/2018 Status: Complete	1/15/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB: K-Wing Vivarium - I015B	Deficiency: I015B: Two cages of mice had a medicated water cage card, which had not been updated since mid-December. If the medicated water is changed, it needs to be noted on the card. According to the special service request, this is supposed to be done by Vet Services.	02/02/2018 Status: Complete	1/18/2018
Minor	no	HSB: K-Wing Vivarium - I015E	Deficiency: I015E: White cage cards are missing from numerous cages and orange infection cards do not contain all required information.	02/02/2018 Status: Complete	1/16/2018
Minor	no	HSB: K-Wing Vivarium - I015N	Deficiency: I015N: Expired item (exp. 2015) and 3 bottles of envirocide expired in September of 2017 found in the freezer. Please discard.	02/02/2018 Status: Complete	2/2/2018
Minor	no	HSB: K-Wing Vivarium - I015N	Deficiency: I015N: A group was apparently using the anesthesia machine briefly on the day of the visit, but the F/AIR canisters were last weighed since November of 2017.	02/02/2018 Status: Complete	2/1/2018
Minor	no	HSB: K-Wing Vivarium - I015N	Deficiency: I015N: Box on shelf contained expired artificial tears, neosporin, PBS and cisplatinium. Please discard.	02/02/2018 Status: Complete	1/18/2018
Minor	no	HSB: K-Wing Vivarium - I015Q	Deficiency: I015Q: DCM to check bag of thermalogs is expired.	02/02/2018 Status: Complete	1/15/2018
Minor	no	HSB: K-Wing Vivarium - K015	Deficiency: Dirty Side Cagewash: Push broom on floor near autoclave door needs to be elevated.	02/02/2018 Status: Complete	1/15/2018
Minor	no	HSB: K-Wing Vivarium - K015	Deficiency: Dirty Side Cagewash: DCM to check on the expiration date of the gallon jug of vedadine. Please discard if expired.	02/02/2018 Status: Complete	1/18/2018
Minor	no	HSB: K-Wing Vivarium - K017B	Deficiency: K017B: Buprenorphine mix bottle requires an expiration date and a clearer label.	02/02/2018 Status: Complete	2/2/2018
Minor	no	HSB: K-Wing Vivarium - K018E	Deficiency: K018E: Bird feed with no mill date or expiration date was discarded during visit.	01/12/2018 Status: Complete	1/12/2018
Minor	no	HSB: K-Wing Vivarium - K018E	Deficiency: K018E: Cage in the top row, column M, needs IACUC number. Recommended getting husbandry to make stickers for lab to put on cage cards.	02/02/2018 Status: Complete	1/18/2018
Minor	no	HSB: K-Wing Vivarium - K024B	Deficiency: K024B: Expired Clidox, please discard (bottle sitting in sink).	02/02/2018 Status: Complete	1/12/2018
Minor	no	HSB: T-Wing Vivarium - T119	Deficiency: T119: Bottles of Virkon S should be labeled with the date they were mixed up.	03/23/2018 Status: Complete	3/16/2018
Minor	no	HSB: T-Wing Vivarium - T123	Deficiency: T123: Paper disks in running wheels are non-sanitizable and visibly soiled. Non-sanitizable surfaces must be removed or sealed.	03/23/2018 Status: Complete	4/10/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	HSB: T-Wing Vivarium - T123	Deficiency: T123: Expired bottles of saline should be discarded or labeled "not for animal use."	03/23/2018 Status: Complete	4/9/2018
Minor	no	HSB: T-Wing Vivarium - T125	Deficiency: T125 (Welsh): Dates on cage cards are confusing, received date and age date don't align (e.g., one cage had age date 11/10/16 and received date 5/7/16). Please ensure that dates on cage cards are clear and accurate.	03/23/2018 Status: Complete	4/2/2018
Minor	no	HSB: T-Wing Vivarium - T125	Deficiency: T125 (Welsh): Some animals appear to be over 18 months of age (age date on cage card 6/5/16). Housing of aged animals is not approved on this protocol.	03/23/2018 Status: Complete	4/10/2018
Minor	no	HSB: T-Wing Vivarium - T137	Deficiency: T137: Rack overdue for change out (was due on 1/26/18).	03/09/2018 Status: Complete	3/22/2018
Minor	no	Kincaid Hall - 146C	Deficiency: 146C: Expired saline. Marked as expired during site visit.	04/05/2018 Status: Complete	4/5/2018
Minor	no	Kincaid Hall - 310B	Deficiency: 310B: Floor is dirty/dusty and should be cleaned.	04/25/2018 Status: Complete	4/30/2018
Minor	no	Kincaid Hall - 310B	Deficiency: 310B: Isoflurane vaporizer did not have a sticker indicating calibration date. Lab believes they have had vaporizer since ~1/17 (over a year) so it should be calibrated. Please label "Do Not Use Until Calibrated."	04/30/2018 Status: Complete	4/30/2018
Minor	no	Kincaid Hall - 507A	Deficiency: 507A: Static mouse cage change intervals are sometimes longer than 7 days (e.g., up to 10 days in some cases). Cage change interval should be a maximum of 7 days.	04/25/2018 Status: Complete	4/9/2018
Minor	no	Kincaid Hall - 507A	Deficiency: 507A: Wires/filters are not changed every 28 days. It was being done by calendar month (e.g. 3/5/18 and 4/5/18).	04/25/2018 Status: Complete	4/9/2018
Minor	no	Kincaid Hall - 558 Suite	Deficiency: 558: Two spray bottles were not labeled with the contents. They were labeled at the time of the site visit (Virkon and water), so no further action necessary.	04/05/2018 Status: Complete	4/5/2018
Minor	no	Kincaid Hall - 558 Suite	Deficiency: 558: Container of bird food lists a mill date of 9/25/17 and states that the expiration date is 6 months after the mill date – thus it appears that either the food recently expired, or there is a labeling error.	04/25/2018 Status: Complete	4/5/2018
Minor	no	Kincaid Hall - ROOF	Deficiency: Roof Aviaries: Food enrichment (salad) was placed on the floor of the cage. Per the Guide, "feeders should be designed and placed ... to minimize contamination with urine and feces." Please provide food enrichment in a manner that will minimize contamination with urine and/or feces (e.g., raised platform or dish).	05/01/2018 Status: Complete	4/6/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	Kincaid Hall - ROOF	Deficiency: Roof Aviaries: Copy of the protocol kept with care logs is out of date (approved in 2013). Please update with a current copy of the protocol by printing the Printer Version in HoverBoard.	05/01/2018 Status: Complete	4/16/2018
Minor	no	Kincaid Hall - ROOF	Deficiency: Roof Aviaries: Some of the filters along wall need to be replaced/re-positioned. OAW has submitted a Work Order and Facilities Services will contact to schedule the work.	07/31/2018 Status: Complete	5/25/2018
Minor	no	Manchester Field Station -	Deficiency: Sablefish Feed room # 12-3A: Broken light fixture cover, north side of room over sink near door.	05/31/2018 Status: Complete	2/28/2018
Minor	no	Roosevelt Laboratory Spaces - 1110	Deficiency: 1110: Zebrafish feed is a mix composed of 3 different types of stock food, all stored in the refrigerator. The 3 different stock feeds are not adequately labeled - each should include what the food is (already present on the 2 cans, but not the bag) and an expiration date, at minimum. At least two of the types of feed are not labeled with an exp. date by the manufacturer, so the visitors agreed that the lab could make one sign indicating the expiration date as a max of 1 year from the date of opening.	01/19/2018 Status: Complete	1/8/2018
Minor	no	Roosevelt Laboratory Spaces - 264	Deficiency: 264: Rust marks on the floor from the gas tanks as well as from a desk, and other areas where the floor is dirty. Can facilities strip/wax the floor (which seems necessary for the rust marks in particular)?	03/30/2018 Status: Complete	2/5/2018
Minor	no	SLU 2 Laboratory Spaces - N115	Deficiency: N115: Plastic bin used to hold anesthetized animals need to be replaced.	02/28/2018 Status: Complete	2/28/2018
Minor	no	SLU 2 Laboratory Spaces - N117	Deficiency: N117: Expired buprenorphine: vial marked during visit as expired.	02/08/2018 Status: Complete	2/8/2018
Minor	no	SLU 2 Laboratory Spaces - P128	Deficiency: P128: Left door of the double entry doors has a paint ding that needs repair. Please submit a work order in InfoCentre.	03/31/2018 Status: Complete	2/12/2018
Minor	no	SLU 2 Laboratory Spaces - P128B	Deficiency: P128B: Door has a paint ding that needs repair. Please submit a work order in InfoCentre.	03/31/2018 Status: Complete	2/12/2018
Minor	no	SLU 2 Laboratory Spaces - S462	Deficiency: S462: Expired Povidone Iodine. This was disposed of during the visit.	02/28/2018 Status: Complete	2/28/2018
Minor	no	SLU 3.1 Laboratory Spaces - E146	Deficiency: E146: Eyewash log indicates it is being flushed monthly. We informed them it needs to be done weekly, and the flush needs to be last only until the water runs clear.	02/28/2018 Status: Complete	2/14/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	SLU 3.1: 0 Level Vivarium -	Deficiency: E021 (ante-room to dark room), E040, E041, E042, E043, E044, E045A: Please clean floor.	03/16/2018 Status: Complete	3/14/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E020	Deficiency: E020: On 2/16/18, there was a 4 degree variance (F) in the temperature. This was not noted on the log or mentioned to the facility supervisor. Please be sure that temperature variances 4 degrees (F) or greater are properly reported.	03/16/2018 Status: Complete	2/21/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E021B	Deficiency: E021B: Line item for checking food on Daily Care Log was not completed any day this week (week of 2/11/18). Please be sure that all daily tasks are completed and recorded appropriately.	03/16/2018 Status: Complete	2/21/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E025	Deficiency: E025: Cage wire tops being changed every 30-31 days on one rack. Cage wire tops should be changed every 28 days.	03/16/2018 Status: Complete	2/20/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E044	Deficiency: E044: Rusty scale with rusty razor blade found in cabinet. Unclear who owns this item. Razor blade disposed of, and scale removed from space during site visit.	02/16/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E045A	Deficiency: E045A (Alpers): Expired surgical gloves found in storage containers. These items should not be used for survival surgery. Gloves were removed from space during site visit. Facility supervisor will contact group.	02/16/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E045A	Deficiency: E045A (Paragas): Rusty surgical instruments were found in storage container. Surgical instruments should be clean and in good working order if used for non-survival procedures, or sterile and in good working order if used for survival surgery. Please be sure that instruments are properly cleaned and serviced prior to next use.	03/16/2018 Status: Complete	2/26/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E062	Deficiency: E062 (Procedure): Multiple, unlabeled 15 conical tubes with red liquid. 15 mL conicals labeled with IL-2 and IL-10 with "no expiration date", but there should be a date made at least. Some tubes labeling could not be read. Please identify with contents, date prepared and/or expiration date as appropriate.	03/16/2018 Status: Complete	2/28/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E068	Deficiency: E068 (Kobayashi): Bottle of expired betadine identified in drawer. Bottle was removed from space during site visit. Facility supervisor will contact group to dispose of.	02/16/2018 Status: Complete	2/16/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	SLU 3.1: 0 Level Vivarium - E068	Deficiency: E068 (Kobayashi): Vial labelled "TAM" found in small refrigerator under surgery table is expired. Vial was removed from space during site visit. Facility supervisor will contact group to dispose of.	02/16/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E068	Deficiency: E068 (Xu): Tubing running from surgery table to biosafety cabinet presents a trip hazard. Please re-arrange to keep tubing up off the floor.	03/16/2018 Status: Complete	2/27/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E068	Deficiency: E068 (Xu): Unclear what the tubing running in to the BSC is intended for (scavenging of isoflurane?). The BSC has not been certified since 2014. Need to determine what the group is intending and confirm that the BSC is appropriate for the intended use.	03/16/2018 Status: Complete	2/27/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E068	Deficiency: E068 (Xu): No starting weight listed on the F/Air canisters. If canisters are in use, weight should be recorded before each use.	03/16/2018 Status: Complete	2/27/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E080	Deficiency: E080, E081: Some room minimum temperatures below 68F (~67.6F).	03/16/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E082	Deficiency: E082: Last recorded eyewash check was 1/16 (site visit date was 2/16). Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	03/16/2018 Status: Complete	2/20/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E085C	Deficiency: E085C: All days during the current week had minimum temperatures below 68F (minimum macroenvironment temp for rodents is 68F). Dean submitted a work order.	03/16/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E085C	Deficiency: E085C: One mouse may have slightly labored breathing; veterinary check submitted. Please provide update on the animal.	03/23/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E088A	Deficiency: E088A: Cover for rack of stored water bottles is ripped. Please replace cover.	03/16/2018 Status: Complete	2/22/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E088A	Deficiency: E088A: Door jamb between procedure room (E088A) and housing room (E087A) is in disrepair. Currently fixed with tape. Please repair door jamb so that it can be properly cleaned and sanitized.	04/30/2018 Status: Complete	3/14/2018
Minor	yes	SLU 3.1: 0 Level Vivarium - E088C	Deficiency: E088C (Greenberg): (Repeat): Two boxes of supplies are overstuffed, such that the lid cannot be closed. Please store supplies in an appropriately sized container.	03/16/2018 Status: Complete	2/28/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	SLU 3.1: 0 Level Vivarium - E088C	Deficiency: E088C: Tupperware bin labelled "Bevan" appeared to have supplies currently in use. Bin should be labelled with name of current owner.	03/16/2018 Status: Complete	3/6/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E088D	Deficiency: E088D (Smith): Several small vials of clear liquid in storage container that are not properly labelled (labeled as "A", "B", etc). Suspect these were used to "blind" treatment for a study, but should be disposed of if no longer in use. Labels should also include the date the solution was made and the expiration date.	03/16/2018 Status: Complete	2/28/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E088D	Deficiency: E088D (Clark): Several small vials with clear liquid were not labeled in small black refrigerator. Please label with the name of the solution, the date the solution was made, and the expiration date.	03/16/2018 Status: Complete	2/23/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E088D	Deficiency: E088D (von Moltke): Spray bottles in storage containers need to be properly labeled with the expiration date.	03/16/2018 Status: Complete	2/28/2018
Minor	no	SLU 3.1: 0 Level Vivarium - E088D	Deficiency: E088D: Tupperware bin labelled "Bevan" appeared to have supplies currently in use. Bin should be labelled with name of current owner.	03/16/2018 Status: Complete	3/6/2018
Minor	no	SLU 3.1: 7 Level Vivarium -	Deficiency: All tasks on the monthly facility log were not completed for the month of January.	02/23/2018 Status: Complete	2/16/2018
Minor	no	SLU 3.1: 7 Level Vivarium - E739	Deficiency: E739: There has been low humidity in the active animal housing room over the past month. These events were not reported. There currently does not appear to be a process for reporting out of range events. Additionally, it appears that although humidity can be controlled within the facility, this aspect of the system is not working as expected.	02/23/2018 Status: Complete	2/23/2018
Minor	no	SLU 3.1: 7 Level Vivarium - E739A	Deficiency: E739A: Oxygen tank was not properly secured (was resting on the bottom shelf of a cart). Please secure the tank.	02/23/2018 Status: Complete	2/16/2018
Minor	no	WaNPRC: Arizona -	Deficiency: Food storage room: Smoke detector did not have a battery. Please install a battery and ensure that the smoke detector is in good working order.	04/20/2018 Status: Complete	3/27/2018
Minor	no	WaNPRC: Arizona -	Deficiency: Food storage room: Brooms are propped up against the wall. Please install a broom holder so that they can be stored up off the floor.	06/30/2018 Status: Complete	3/30/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	WaNPRC: Arizona -	Deficiency: Top floor of animal housing facility: Rooms do not drain well due to the slope of the floor (i.e., does not slope toward drain). Currently using ShopVac like equipment to clean up water, etc., which is noisy and troublesome. Please repair to allow for proper drainage. Corrective Action Plan: Correction due date to be determined.	Corrective Action Plan: Correction due date to be determined.	
Minor	no	WaNPRC: Arizona - 203	Deficiency: 203: Several scrapes along the left wall. Please repair and repaint so that the surfaces are sound, sealed and sanitizable.	06/30/2018 Status: Complete	4/20/2018
Minor	no	WaNPRC: Arizona - 203	Deficiency: Hallway outside of 203: Several scrapes in the wall along the length of the hallway. Please repair and repaint so that the surfaces are sound, sealed and sanitizable.	06/30/2018 Status: Complete	4/20/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - 1355	Deficiency: 1355: Door jamb needs to be repainted. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	4/27/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - 1429	Deficiency: 1429: Across the hall from 1429 is a very large (~2' wide by 4.5' tall) hole in the wall that is "covered" by a piece of board that is partially taped to the wall. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	4/2/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - 1445	Deficiency: 1445: Counter top needs to be re-sealed. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - 1445A	Deficiency: 1445A: Leaky sink faucet and creating a slip hazard on the floor. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	3/15/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - 1445A	Deficiency: 1445A: Door lock taped and cannot latch. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	3/21/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - 1553	Deficiency: 1553 Hallway: Chips and scrapes on the walls, in particular below the electrical panel and on the walls with the door that leads to the animal holding areas. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	3/28/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	WaNPRC: I-Wing Laboratory Spaces - I553	Deficiency: I553: Floor areas near the animal booths need to be repaired. They have rust stains from equipment that was previously installed in those areas. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	6/6/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - I553	Deficiency: I553: Floor in front of the sink outside I553 needs to be repaired as this area is part of the pathway that the monkeys move through as they are transported to the testing chambers. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	6/6/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - I553	Deficiency: I553: Baseboard is peeling away from the wall in the I553 hallway. OAW will submit a Work Order and Facilities Services will contact WaNPRC to schedule the work.	06/30/2018 Status: Complete	3/27/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - I728C	Deficiency: I728C: Apparatus has squared off metal edges that are positioned at human head height and the frame that they are attached to has peeling laminate. This needs to be repaired/replaced.	06/30/2018 Status: Complete	3/21/2018
Minor	no	WaNPRC: I-Wing Laboratory Spaces - I728D	Deficiency: I728D: Apparatus has squared off metal edges that are positioned at human head height and the frame that they are attached to has peeling laminate. This needs to be repaired/replaced.	06/30/2018 Status: Complete	3/21/2018
Minor	no	WaNPRC: I-Wing Vivarium -	Deficiency: I359, I363, I461, I463, I459, I563, I565, I567: Low temperatures (between 69-73 degrees) are recorded on the room care logs for all of these housing spaces, but only one log (I363) acknowledges the low temperatures and indicates that a work order has been submitted. All out-of-range temperatures need to be circled and acknowledged on each room's care log, as per the instructions on the logs.	04/19/2018 Status: Complete	4/19/2018
Minor	no	WaNPRC: I-Wing Vivarium - I027	Deficiency: I027 (currently a temporary storage room): Dripping hose needs repair.	08/31/2018 Status: Complete	4/18/2018
Minor	no	WaNPRC: I-Wing Vivarium - I040S	Deficiency: I040S (Corridor): Large dings in walls of corridor immediately to the right side of doors to room I089N and I089M.	08/31/2018 Status: Complete	4/27/2018
Minor	no	WaNPRC: I-Wing Vivarium - I045	Deficiency: I045: Eyewash log is not present and not listed in the eyewash log book.	04/19/2018 Status: Complete	4/18/2018
Minor	no	WaNPRC: I-Wing Vivarium - I055	Deficiency: I055: Eyewash log is not present and not listed in the eyewash log book.	04/19/2018 Status: Complete	4/19/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	WaNPRC: I-Wing Vivarium - I065E	Deficiency: I065E: Lights do not work in the room. Currently being used as storage, but this should be addressed.	08/31/2018 Status: Complete	5/11/2018
Minor	no	WaNPRC: I-Wing Vivarium - I073B	Deficiency: I073B: Expired box of supplies, determined it might be for training purposes only. Box was relabeled and relocated. The surgeon will be contacted to see if necessary.	04/19/2018 Status: Complete	4/19/2018
Minor	no	WaNPRC: I-Wing Vivarium - I073B	Deficiency: I073B (Corridor): Large ding on wall behind tall red waste container needs repair, this is apparently a repeated problem, so a metal plate should be considered to prevent future repeat of problem.	08/31/2018 Status: Complete	4/27/2018
Minor	no	WaNPRC: I-Wing Vivarium - I089D	Deficiency: I089D (Necropsy): Monthly checklist for room has not been updated since 8/2017; monthly room tasks need to be completed and logged every month.	04/19/2018 Status: Complete	4/19/2018
Minor	no	WaNPRC: I-Wing Vivarium - I089E	Deficiency: I089E: Refrigerator temperature log ended in 2/2017. Unsure if it has been checked since then or where the log is being kept. There are drugs that are current and in storage – would like to know that either a plan is in place for the refrigerator to be monitored or locate the log book. There is an old lock box, possibly not in use that appears to be broken.	04/19/2018 Status: Complete	4/18/2018
Minor	no	WaNPRC: I-Wing Vivarium - I089P	Deficiency: I089P: Door handle is loose, needs repair.	08/31/2018 Status: Complete	4/4/2018
Minor	no	WaNPRC: I-Wing Vivarium - I089S	Deficiency: I089S: Room still has old Zika and PPE warnings on one of the two entry doors. This needs to be removed.	04/19/2018 Status: Complete	4/18/2018
Minor	no	WaNPRC: I-Wing Vivarium - I363A	Deficiency: I363A (corridor): Chipped paint around elevator.	08/31/2018 Status: Complete	5/16/2018
Minor	no	WaNPRC: I-Wing Vivarium - I463	Deficiency: I463: Large hole on the floor between monkey cages (possible a former drain that has lost its cover) was pointed out by the tech.	08/31/2018 Status: Pending Corrective Action	
Minor	no	WaNPRC: I-Wing Vivarium - I559	Deficiency: I559 (corridor): Chipped paint with exposed drywall near elevator.	08/31/2018 Status: Complete	4/27/2018
Minor	no	WaNPRC: I-Wing Vivarium - I752	Deficiency: I752: Rust on the floor needs to be cleaned. Dirt clearly visible around vents. Exposed electrical wires in the ceiling (fixture needs to be reinstalled). Vent above the main door was taped over with plastic. Main double door cannot be closed/locked in place.	08/31/2018 Status: Complete	4/27/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	WaNPRC: I-Wing Vivarium - J025A	Deficiency: J025A (Dirty cagewash): Paint on walls and ceiling peeling, plastic edging is cut and damaged, concrete exposed and crumbling, visitors were told that repairs are pending, but another room needs to be fixed first before this one can be closed for approximately one month for needed repairs.	08/31/2018 Status: Pending Corrective Action	
Minor	no	WaNPRC: I-Wing Vivarium - UW Vehicle - Lic. # 943A (Transportation Van)	Deficiency: Van: Log present in the van only has one trip record, and it shows that the van was 46 degrees at the beginning of the last trip. While this is within the acceptable range in the Guide, WaNPRC SOP is to warm the van to 65 degrees prior to loading the animal.	04/19/2018 Status: Complete	4/18/2018
Minor	no	WaNPRC: RR-Wing Vivarium - RR050	Deficiency: RR050: Expired vacutainers were found on the crash cart. Please check and discard and additional expired products on the crash cart.	04/04/2018 Status: Complete	4/4/2018
Minor	no	WaNPRC: RR-Wing Vivarium - RR056	Deficiency: RR056: Cracked vinyl chair is not sanitizable. The chair should be removed or replaced.	04/04/2018 Status: Complete	4/4/2018
Minor	no	WaNPRC: RR-Wing Vivarium - RR058	Deficiency: R058: Small piece of debris (grape skin?) needs to be cleaned from back of floor panel in testing chamber.	04/04/2018 Status: Complete	4/4/2018
Minor	no	WaNPRC: RR-Wing Vivarium - RR135	Deficiency: RR135 (Feed storage room): Broom and dustpan on floor. Please install a holder to hang them so the broom and dustpan are not touching the floor. Corrective Action Plan: The mop holder was ordered, but has not been received yet. Updating correction due date to 5/16/18.	05/16/2018 Status: Complete	5/21/2018
Minor	no	WaNPRC: RR-Wing Vivarium - RR142	Deficiency: RR142 (Surgery room): Flo-Gard 6301 pump is overdue for annual re-certification.	04/04/2018 Status: Complete	4/4/2018
Minor	no	WaNPRC: RR-Wing Vivarium - RR148	Deficiency: RR148: Open date for some of the food items is difficult to differentiate from the expiration date. Please consider revising labels to provide more space to write date opened and/or date expired.	04/04/2018 Status: Complete	4/4/2018
Minor	no	WaNPRC: Western - 107	Deficiency: B107: SOP# 1027 is outdated. Please update.	04/18/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: Western - 114	Deficiency: W114: PAPR storage box – hand-written note that said "charged 11/16/16". This should probably be checked.	04/18/2018 Status: Complete	4/17/2018
Minor	no	WaNPRC: Western - 114	Deficiency: W114: Vet/pathologist on-call list ended with the week of 3/4. (We're now in the week of 3/11.) Please update on call lists.	04/18/2018 Status: Complete	4/16/2018

Severity	Repeat	Location	Deficiency and Corrective Action Plan	Correction Due Date and Status	Date Complete
Minor	no	WaNPRC: Western - 114	Deficiency: W114: SOP# 1027 outdated. Please be sure SOP is updated.	04/18/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: Western - 213	Deficiency: W213 (cagewash): Cracked ceiling needs repair.	06/30/2018 Status: Complete	5/22/2018
Minor	no	WaNPRC: Western - 217	Deficiency: W217: SOP# 1027 outdated. Please replace.	04/18/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: Western - 217	Deficiency: W217: Chlorhexidine needs relabeling. (Label is worn off)	04/18/2018 Status: Complete	4/17/2018
Minor	no	WaNPRC: Western - 219	Deficiency: W219: Food bin was slightly open. On further inspection, it was overfilled. Don't overfill bins and check to be sure lid snaps closed.	04/18/2018 Status: Complete	4/17/2018
Minor	no	WaNPRC: Western - 229	Deficiency: W229: Food bin had a warped lid. Please replace.	04/18/2018 Status: Complete	4/17/2018
Minor	no	WaNPRC: Western - 234	Deficiency: W234: SOP# 1027 and emergency phone list outdated. Please replace.	04/18/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: Western - 243	Deficiency: W243: Large crack in the wall. Please repair/repaint.	06/30/2018 Status: Complete	5/22/2018
Minor	no	WaNPRC: Western - 315	Deficiency: W315: Paint is chipping along the far wall (wall with glass blocks). Please repair/repaint as needed so that the surface is sealed and sanitizable.	06/30/2018 Status: Complete	5/22/2018
Minor	no	WaNPRC: Western - 322	Deficiency: W322 (Transfer cages): Water was leaking from one of the lines hooked up to the transfer cages, resulting in a puddle of water on the fall. This presents a slip hazard. Please be sure all water lines are securely connected and fittings are in good working order.	04/18/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: Western - 322	Deficiency: W322 (just outside of W329): Second broom/mop holder along this wall would be helpful. The current holder is quite crowded, and, as a result, mops/brooms are often just propped against the wall. Brooms/mops must be stored up of the floor.	05/31/2018 Status: Complete	4/19/2018
Minor	no	WaNPRC: Western - 327	Deficiency: W327: Weekly tasks are being performed, but not consistently logged on the Procedure Room Checklist. Please be sure that all tasks are documented appropriately.	04/18/2018 Status: Complete	4/16/2018
Minor	no	WaNPRC: Western - 329	Deficiency: W329: Drain cover is missing. Please replace.	06/30/2018 Status: Complete	5/11/2018

**Appendix C Departures**

<b>Protocol ID</b>	<b>Protocol Name</b>	<b>Departure Type</b>	<b>Departure Reason</b>	<b>Departure Description</b>
IACUC action	na	General -- IACUC approved variance	The IACUC approved an exemption to house infant monkeys (age 2 weeks to a body weight of 1 kg) in cages that meet floor space requirements but are only 24" high. These animals climb up well, but are not adept at climbing down. The lower cage height reduces the risk of injury if an animal should fall.	IACUC approved cage size variance for USDA species.
IACUC action	na	General -- IACUC approved variance	The IACUC approved co-housing 4 juvenile nonhuman primates (up to 5 kg body weight) as a group in a Group 3 sized 4-cage rack with both vertical dividers and one horizontal divider removed. This innovative configuration meets the volume regulations for Group 3 animals and, while being shy of the floor area standard, provides the animals increased opportunity to express species-typical behavior.	IACUC approved cage size variance for USDA species.

Protocol ID	Protocol Name	Departure Type	Departure Reason	Departure Description
PROTO201600314	4029-01 Mice: Inflammatory response modification by mechanical ventilation	Prolonged Restraint	Restraint will be necessary for AgNP exposure to limit mouse exposure to the inhaled route and avoid incidental oral ingestion associated with grooming. Use of this system may also be required for bacterial aerosolization to achieve sufficient deposition to allow optical imaging and to prevent potential confounding luminescent signal from bacterial deposition on external surface of mice.	<p>cylindrical restraint with a plunger on one end to position mouse head at the front for use in a nose-only aerosol exposure system</p> <p>Frequency: once</p> <p>Duration of restraint: up to 30-min</p> <p>Mice will be directly observed through the transparent restraining tubes for the duration of the exposure. Exposure will be discontinued if any mouse displays evidence of abnormal behavior (e.g. vocalization, new struggling after settling down following initial restraint, evidence of distress) or complete cessation of any movement. Mice which appear to be in distress by any of the above signs will prompt discontinuation of the aerosol delivery to the entire cohort and evaluation of the distressed mice. The distressed mouse will be removed from the restraint and placed in a cage. If the mouse appears normal within 5-min, it will be returned to the restraint and aerosol resumed. If distress recurs then this mouse will be removed permanently</p>
PROTO201600639	3339-01: Gene Transfer in Cardiovascular Disease (Mice)	Prolonged Restraint	Animals need to be restrained for accurate and reliable blood pressure measurement. (s per DiPetrillo, K. Cardiovascular Genomics: Methods and Protocols. Humana Press. New York, NY. p45-55). Mice will be restrained in a specially designed holder that allows the animal to breathe normally but also restrict its field of vision.	The first 15 minutes of restraint are required for the animal to adjust to being restrained while the tail is warmed to a temperature that is optimal for tail- cuff blood pressure measurements. The next 15 minutes of restraint are used for the actual blood pressure measurements. In our experience, and according to others' experience reported in the reference above and elsewhere, more extensive habituation of the mice to the holder is not required.

Protocol ID	Protocol Name	Departure Type	Departure Reason	Departure Description
PROTO201700006	3104-01: Lipoproteins, Inflammation and Atherosclerosis	Temperature Variance	5 degrees C for 4 hours, 14 degrees C for 3 days Species: Mice	For acute cold stress measurements, mice will be placed inside the test chamber and ambient temperature will be reduced from 22 degrees C to 5 degrees C over a 60 minute period. The temperature will be maintained at 5 degrees C + or - 0.5 degrees C for 240 minutes and then raised back up to 22 degrees C over the next 60 minutes. Each cohort of mice will be subjected to a single acute cold stress over a 3-day period. Following recovery (at least 5 days), an additional second chronic cold stress will be induced by reducing ambient temperature to 14 degrees C over a 60-minute period. The temperature will be maintained at 14 degrees C + or - 0.5 degrees C for 3 days and then raised back to 22 degrees C over the next 60 minutes. These measurements are necessary to determine the effect of CLA on thermogenesis in a mouse model of diet-induced obesity
PROTO201600717	2456-07: Neuroendocrine Control of Energy Balance - rat	Temperature Variance	Cool Temperature	Metabolic experiments. Ambient temperature (Ta) will be reduced from 22°C to 14°C. A Ta value of 14°C will be maintained for up to 1 week and then will be raised back to 22°C. This cool exposure time is less than that previously reported in the literature (2 weeks).
PROTO201600717	2456-07: Neuroendocrine Control of Energy Balance - rat	Temperature Variance	Thermoneutral	Animals undergo a series of metabolic experiments. Normally, room temperature is kept between 68° and 78° F. However, to eliminate the possibility that a defect in the maintenance of body temperature is contributing to the enhanced energy expenditure in rodents of a particular genotype, the same metabolic experiments need to be performed under thermoneutral conditions. This experiment is performed routinely in metabolic chamber systems and does not harm the animal. Room temperature will be manually raised from 76° to 90° F with a 4 ~5 degree rise per every 48 hour. Animals will be placed in the metabolic chambers for a total of 192 hours.

Protocol ID	Protocol Name	Departure Type	Departure Reason	Departure Description
PROTO201600898	2456-06: Neuroendocrine Control of Energy Balance - mice	Temperature Variance	Thermoneutral	Animals undergo a series of metabolic experiments. Normally, room temperature is kept between 68° and 78° F. However, to eliminate the possibility that a defect in the maintenance of body temperature is contributing to the enhanced energy expenditure in rodents of a particular genotype, the same metabolic experiments need to be performed under thermoneutral conditions. This experiment is performed routinely in metabolic chamber systems and does not harm the animal. Room temperature will be manually raised from 76° to 90° F with a 4 ~5 degree rise per every 48 hour. Animals will be placed in the metabolic chambers for a total of 192 hours.
PROTO201600898	2456-06: Neuroendocrine Control of Energy Balance - mice	Temperature Variance	Cool Temperature	Metabolic experiments. Ambient temperature (Ta) will be reduced from 22°C to 14°C. A Ta value of 14°C will be maintained for up to 1 week and then will be raised back to 22°C. This cool exposure time is less than that previously reported in the literature (2 weeks).

## Concurrence Letters



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report concurrence |



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## Minority Views



Minority Opinion  
JonesEngel 2018.pd

To: University of Washington, IACUC  
From: Lisa Jones-Engel, PhD IACUC Member 2017- to present  
Re: Prolonged Restraint—A Minority Opinion for Semi-Annual Program and Facility Review of Animal Use Program by the IACUC  
Date: August 1, 2018

At the July 19, 2018 monthly IACUC meeting we reviewed our January-June 2018 Semi-Annual report and during this discussion questions were raised regarding how we are reporting the number of protocols that have been approved for 'prolonged physical restraint'. Specifically, I questioned why we are not reporting in our Semi-annual the 10 nonhuman primate protocols that contain approved prolonged restraint.

*The University of Washington IACUC defines prolonged physical restraint as physical restraint of an unanesthetized animal for:*

1. *30 minutes or longer in a natural body position in which no body parts are completely immobilized (e.g. pig sling, primate chair restraint without head or limb fixation)*
2. *15 minutes or longer in an unnatural body position and/or one or more body parts are immobilized (e.g. most rodent restraint devices, primate chair restraint with head fixation)*

Prolonged restraint may have deleterious effects on the health and wellbeing of a laboratory animal. Additionally, the physiological reactions to restraint and potential physical impairment caused by prolonged restraint may skew the results of scientific experiments. The *Guide for the Care and Use of Laboratory Animals* (National Research Council, 2011), acknowledges the extreme impact of prolonged physical restraint and states that it "...should be avoided unless it is essential for achieving research objectives and is specifically approved by the IACUC." As members of the IACUC we are entrusted with the ongoing assessment of animal care and use, therefore it is critical that we have accurate information on the number and types of protocols that have been approved for prolonged restraint as we reflect on our program.

In our current report we state that only 2 protocols with prolonged restraint (both for mice) were approved departures from PHS Policy, the AWA and the Guide. Following discussions during and after the meeting it has become clear that there may be inconsistencies in how we have been classifying degrees of physical restraint. It is important that the IACUC and OAW work toward resolving these inconsistencies and I do note that there is a plan underway to address this issue before the next semi-annual report.