GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	48	Dates:	11/25/2018-12/1/2018	Counted On	11/27/2018
INSTRUMENT USED: Quantasmart (Serial# 073396)		CONTROL FACTOR:		1.40E-06	
CHANNEL ENERGY RANGE (keV)		CH A: 4-200	CH B: 200-2000	CH C: 4-2000	
COUNTING TIME: 5 Min.	uCi/swipe = CPM:C * Control Factor			uCi/cm2 = CPM:C * Control Factor / 100	
Limit of quantification (LOQ)=	9.15E-08 uCi/cm^2	QUANTIFICATION BELOW REG GUIDE 8.23 LIMITS OK			

Swipe #	LOCATION: ROOM # & AREA/OBJECT	GROSS CPM CHANNEL C	uCi/swipe	uCi/cm^2	NOTE:
1.	BACKGROUND 1	41	**********	*********	
2.	BACKGROUND 2	32	**********	*********	
3.	BACKGROUND 3	29	**********	*********	
4.	BACKGROUND 4	31	**********	*********	
5.	BACKGROUND 5	32	**********	*********	
6.	BACKGROUND 6	33	**********	*********	
7.	ELEVATOR ENTRANCE	41	1.12E-05	1.12E-07	
8.	FENCED GATE	41	1.12E-05	1.12E-07	
9.	EAST FLOOR	37	M	M	
10.	NORTH BENCH TOP	36	M	M	
11.	WEST LAB FLOOR	40	9.80E-06	9.80E-08	
12.	WORK PLATFORM	33	M	M	
13.	CALORIMETER	40	9.80E-06	9.80E-08	
14.	COMPUTERS	35	M	M	
15.	DSC/TGA	40	M	M	
16.	SOUTH BENCH TOP	31	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50086	**********	**********	
	100.99%	CALIBRATION CHECK OK?	YES	

Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable containmination limit of 1 x 10^{-6} uCi/cm^2.

SURVEY PREPARED BY: Bryant Tanner	REVIEWED BY: Corey Hines
SIGN/DATE: 11/28/2018	SIGN/DATE: 11/28/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181127_1244
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181127_1244\20181127_1244.results
Assay File Name: C:\Packard\TriCarb\Assays\Reactor Weekly.lsa

Count Conditions-

Nuclide: Reactor
Quench Indicator: tSIE/AEC
External Std Terminator (sec): 0.5 2s%
Pre-Count Delay (min): 0.00
Quench Set: n/a
Count Time (min): 5.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL
A	4.0	200.0
B	200.0	2000.0
C	4.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: Off
Colored Samples: n/a Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

P#	DATE	TIME	S#	Count Time	CPMA	CPMB	CPMC	SIS	MESSAGES
1	11/27/2018	12:45:09 PM	1	5.00	28	13	41	370.46	
1	11/27/2018	12:51:25 PM	2	5.00	25	8	32	311.48	
1	11/27/2018	12:57:40 PM	3	5.00	24	5	29	221.34	
1	11/27/2018	1:03:53 PM	4	5.00	24	7	31	267.93	
1	11/27/2018	1:10:01 PM	5	5.00	26	5	32	288.64	
1	11/27/2018	1:16:10 PM	6	5.00	26	7	33	292.08	
1	11/27/2018	1:22:26 PM	7	5.00	26	14	41	352.91	
1	11/27/2018	1:28:40 PM	8	5.00	29	12	41	282.10	
1	11/27/2018	1:34:57 PM	9	5.00	27	10	37	326.54	
1	11/27/2018	1:41:07 PM	10	5.00	28	8	36	234.49	
1	11/27/2018	1:47:24 PM	11	5.00	29	11	40	240.96	
1	11/27/2018	1:53:38 PM	12	5.00	26	7	33	215.26	

1	11/27/2018	1:59:57 PM	13	5.00	30	10	40	281.98
1	11/27/2018	2:06:13 PM	14	5.00	27	8	35	278.79
1	11/27/2018	2:12:22 PM	15	5.00	28	12	40	302.57
1	11/27/2018	2:18:40 PM	16	5.00	25	6	31	215.98
1	11/27/2018	2:24:19 PM	17	5.00	14603	35482	50086	1008.27

LABORATORY SURVEY

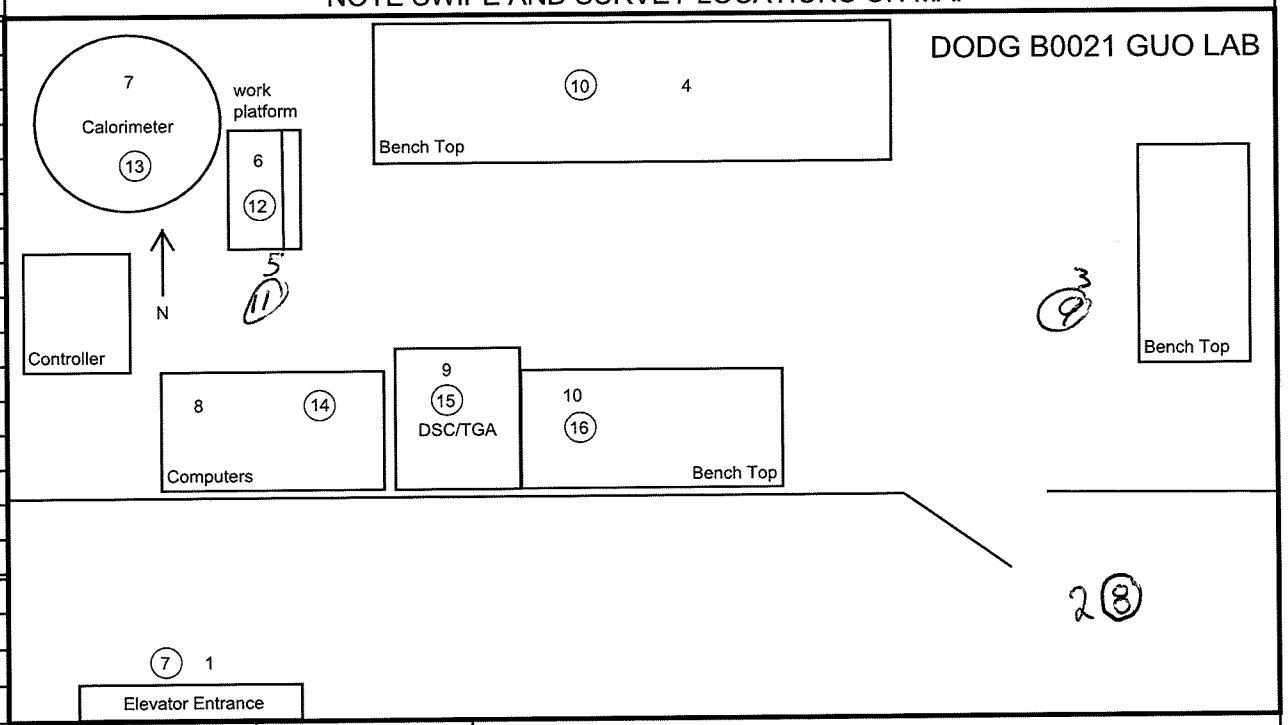
Radiation Safety Office
Washington State University
Pullman, WA 99164-1302
(509) 335 8916

Building	Room	Lab Class	Survey Instrument	Serial No.	Radiation Detected
Dodgen Research Facility	B0021 - GUO	D	GM Detector Model 3	58680	Gamma
Authorized User: Xiaofeng Guo	Date: 11/27/18	Time: 1215	Swipe Instrument: Quantasmart	Serial No. 073396	Radiation Detected: Beta/Gamma
Reactor Status (Check One) ON ☐ OFF ☑					

LSC Printout Date: 11/27/2018

Survey #	Location	CPM
1	Elevator Entrance	<100
2	South Floor	<100
3	East Floor	<100
4	North Bench Top	<100
5	West Floor	<100
6	Work Platform	<100
7	Calorimeter	<100
8	Computers	<100
9	DSC/TGA	350
10	South Bench Top	<100

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Swipe #	and Locations		
1-6	Background	16	South Bench Top
7	Elevator Entrance		
8	South Floor		
9	East Floor		
10	North Bench Top		
11	West Lab Floor		
12	Work Platform		
13	Calorimeter		
14	Computers		
15	DSC/TGA		

Surveyed By:	Date:	Notes
AG/SW/LD	11/27/18	
Swiped By: SW/LD	Date: 11/27/18	
Reviewed By: [signature]	Date: 11/28/2018	

Circled numbers on map indicate a swipe area of 100 square cm. Numbers not circled indicate a survey location.