GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	46	Dates:	11/11/2018-11/17/2018	Counted On	11/13/2018
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)=	9.00E-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	38	**********	*********	
2.	BACKGROUND 2	27	**********	*********	
3.	BACKGROUND 3	26	**********	*********	
4.	BACKGROUND 4	26	**********	*********	
5.	BACKGROUND 5	32	**********	*********	
6.	BACKGROUND 6	37	**********	*********	
7.	ELEVATOR ENTRANCE	27	M	M	
8.	FENCED GATE	28	M	M	
9.	EAST FLOOR	27	M	M	
10.	NORTH BENCH TOP	30	M	M	
11.	WEST LAB FLOOR	34	M	M	
12.	WORK PLATFORM	28	M	M	
13.	CALORIMETER	26	M	M	
14.	COMPUTERS	28	M	M	
15.	DSC/TGA	30	M	M	
16.	SOUTH BENCH TOP	23	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	49908	**********	**********	
	100.63%	CALIBRATION CHECK OK?	YES	

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

SURVEY PREPARED BY: Bryant Tanner	REVIEWED BY: Corey Hines
SIGN/DATE: / 11/14/2018	SIGN/DATE: 11/14/2018

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181113_1510
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181113_1510\20181113_1510.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	11/13/2018	3:11:15 PM	1	5.00	29	9	38	301.52	
1	11/13/2018	3:17:30 PM	2	5.00	21	5	27	290.16	
1	11/13/2018	3:23:45 PM	3	5.00	22	4	26	224.31	
1	11/13/2018	3:29:57 PM	4	5.00	21	5	26	245.85	
1	11/13/2018	3:36:05 PM	5	5.00	27	5	32	268.21	
1	11/13/2018	3:42:13 PM	6	5.00	30	8	37	279.46	
1	11/13/2018	3:48:26 PM	7	5.00	21	6	27	349.96	
1	11/13/2018	3:54:38 PM	8	5.00	23	4	28	197.92	
1	11/13/2018	4:00:55 PM	9	5.00	20	7	27	246.84	
1	11/13/2018	4:07:02 PM	10	5.00	25	5	30	143.82	
1	11/13/2018	4:13:19 PM	11	5.00	29	5	34	147.17	
1	11/13/2018	4:19:35 PM	12	5.00	21	7	28	261.49	

1	11/13/2018	4:25:53 PM	13	5.00	20	6	26	284.67
1	11/13/2018	4:32:05 PM	14	5.00	22	6	28	258.08
1	11/13/2018	4:38:13 PM	15	5.00	22	9	30	301.25
1	11/13/2018	4:44:28 PM	16	5.00	19	4	23	274.04
1	11/13/2018	4:50:08 PM	17	5.00	14495	35413	49908	1008.15

LABORATORY SURVEY

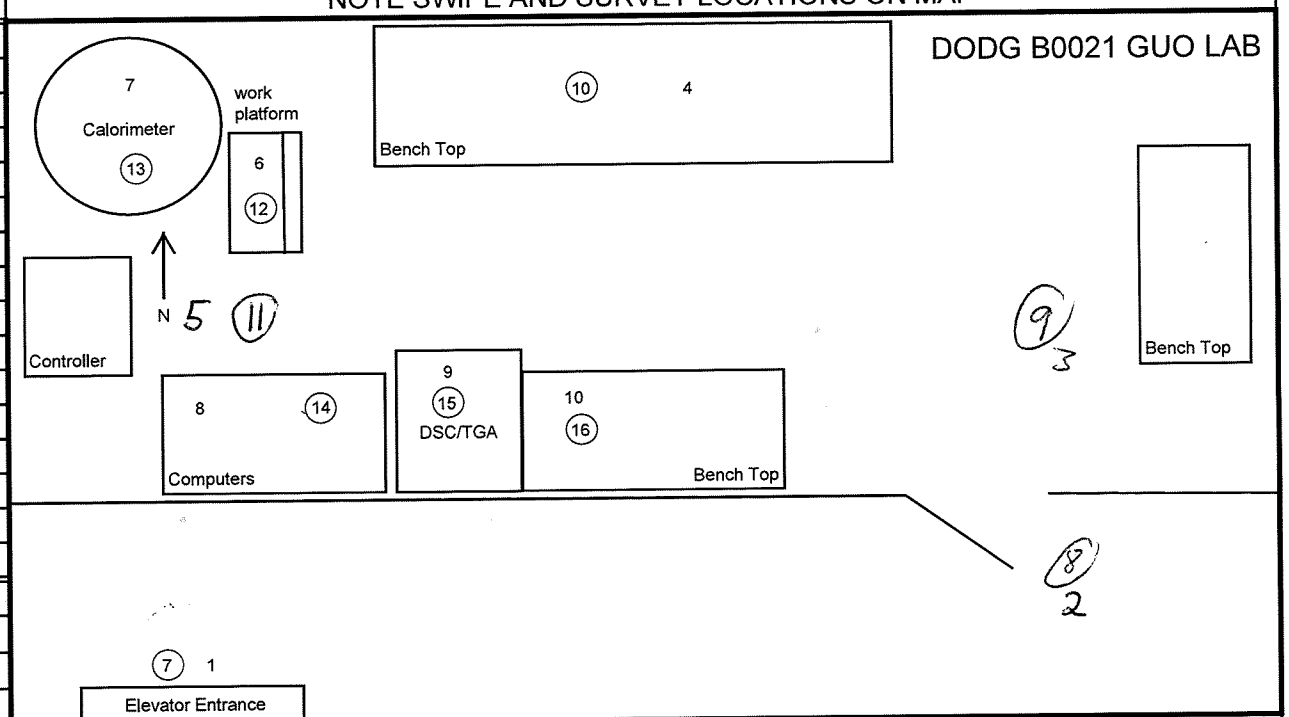
Radiation Safety Office
Washington State University
Pullman, WA 99164-1302
(509) 335 8916

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: 11/13/18	Time: 1308	Swipe Instrument: Quantasmart	Serial No. 073396	Radiation Detected: Beta/Gamma
Reactor Status (Check One) ON ☐ OFF ☑					

LSC Printout Date:

Survey #	Location	CPM
1	Elevator Entrance	<100 CPM AG
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: AG	Date: 11/13/18	Notes
Swiped By: AG	Date: 11/13/18	
Reviewed By: [signature]	Date: 11/14/2018	

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