GUO LAB B0021 WEEKLY SWIPES & SURVEYS

Revised 10/4/2018

Week #	47	Dates:	11/18/2018-11/24/2018	Counted On	11/21/2018
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)=	9.09E-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	32	**********	*********	
2.	BACKGROUND 2	32	**********	*********	
3.	BACKGROUND 3	36	**********	*********	
4.	BACKGROUND 4	29	**********	*********	
5.	BACKGROUND 5	32	**********	*********	
6.	BACKGROUND 6	31	**********	*********	
7.	ELEVATOR ENTRANCE	39	9.80E-06	9.80E-08	
8.	FENCED GATE	39	9.80E-06	9.80E-08	
9.	EAST FLOOR	31	M	M	
10.	NORTH BENCH TOP	36	M	M	
11.	WEST LAB FLOOR	36	M	M	
12.	WORK PLATFORM	35	M	M	
13.	CALORIMETER	31	M	M	
14.	COMPUTERS	30	M	M	
15.	DSC/TGA	32	M	M	
16.	SOUTH BENCH TOP	35	M	M	

Notes: NONE

^{36}Cl SOURCE 09/14/1971	50088	**********	**********	
	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: 11/21/18	SIGN/DATE:

Assay Definition-

Assay Description:

Assay Type: CPM
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181121_0947
Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20181121_0947\20181121_0947.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	11/21/2018	9:49:07 AM	1	5.00	24	8	32	352.61	
1	11/21/2018	9:55:22 AM	2	5.00	26	6	32	270.02	
1	11/21/2018	10:01:37 AM	3	5.00	30	6	36	248.65	
1	11/21/2018	10:07:50 AM	4	5.00	22	7	29	408.50	
1	11/21/2018	10:13:57 AM	5	5.00	23	9	32	363.84	
1	11/21/2018	10:20:05 AM	6	5.00	25	7	31	286.32	
1	11/21/2018	10:26:22 AM	7	5.00	28	11	39	320.02	
1	11/21/2018	10:32:35 AM	8	5.00	29	10	39	264.66	
1	11/21/2018	10:38:54 AM	9	5.00	23	8	31	237.67	
1	11/21/2018	10:45:03 AM	10	5.00	27	9	36	304.93	
1	11/21/2018	10:51:21 AM	11	5.00	26	9	36	276.01	
1	11/21/2018	10:57:36 AM	12	5.00	26	9	35	248.69	

1	11/21/2018	11:03:55 AM	13	5.00	23	7	31	321.26
1	11/21/2018	11:10:09 AM	14	5.00	24	6	30	263.82
1	11/21/2018	11:16:17 AM	15	5.00	25	7	32	289.79
1	11/21/2018	11:22:34 AM	16	5.00	30	6	35	201.21
1	11/21/2018	11:28:13 AM	17	5.00	14471	35617	50088	1015.57

LABORATORY SURVEY

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

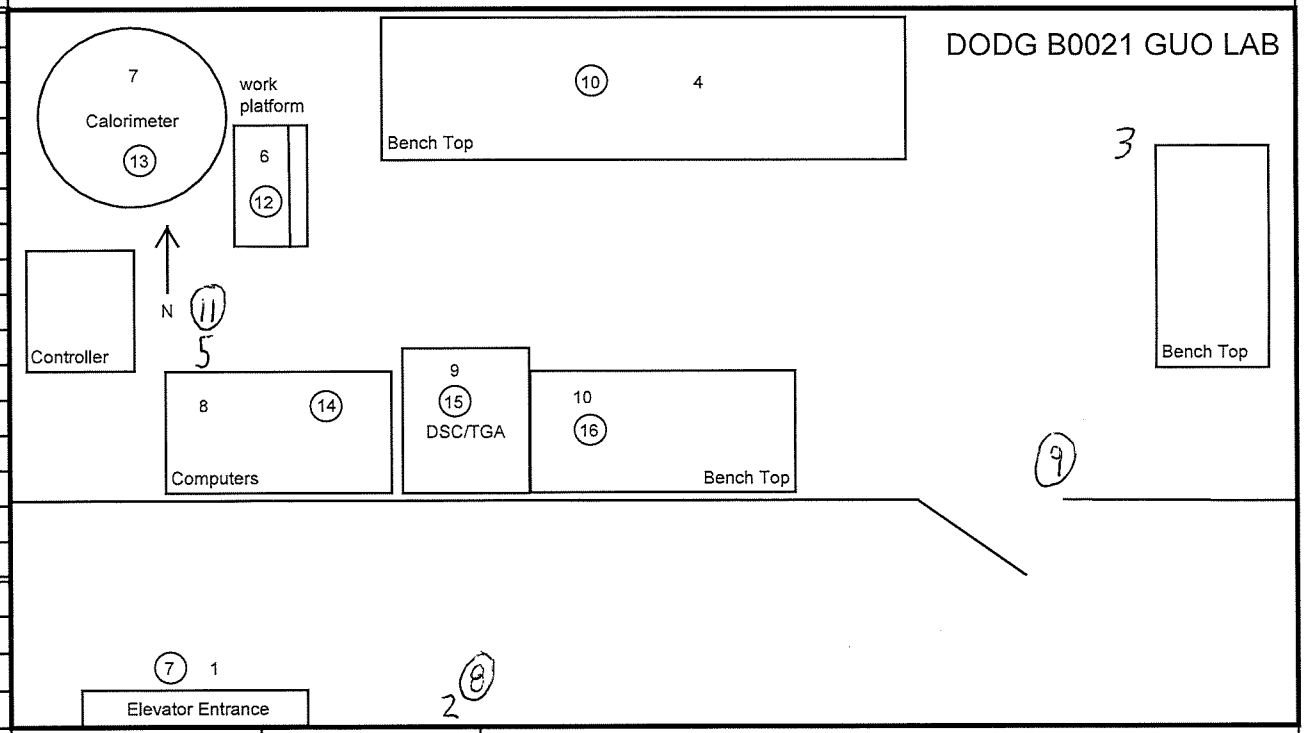
Building	Room	Lab Class	Survey Instrument	Serial No.	Radiation Detected
Dodgen Research Facility	B0021 - GUO	D	TA Model LAM-10L	5021	Gamma
Authorized User	**Date**	**Time**	**Swipe Instrument**	**Serial No.**	**Radiation Detected**
Xiaofeng Guo	11/21/2018	0932	Quantasmart	073396	Beta/Gamma

Reactor Status (Check One)
ON ☐ OFF ☒

LSC Printout Date: 11/21/2018

Survey #	Location	CPM
1	Elevator Entrance	50
2	South Floor	190
3	East Floor	80
4	North Bench Top	60
5	West Floor	100
6	Work Platform	90
7	Calorimeter	70
8	Computers	80
9	DSC/TGA	95
10	South Bench Top	60

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
MJ/BT	11/21/2018	
Swiped By:	**Date:**	
BT	11/21/2018	
Reviewed By:	**Date:**	
[signature]	11/26/2018	

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