



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services



BY: _____

January 27, 2010

09-43402-01

Mr. Ranajit Sahu
Basic Remediation Company (BRC)
875 West Warm Springs Road
Henderson, NV 89011

Subject: **Report**
Radon Testing
Residential Location
1042 Via Sanguinella (Tuscany Development)
Commercial Location
875 West Warm Springs Road (BRC Offices)
Henderson, Nevada

Dear Mr. Sahu:

In accordance with our Professional Services Agreement dated April 15, 2004 and your Task Order 11178, Converse Consultants (Converse) conducted the subject radon testing from January 11 to January 14, 2010. The subject services were reportedly requested to obtain data regarding potential radon levels in future homes to be built in the 89011 zip code.

Scope of Services

The subject assessment included the professional services of Mr. Dale Walsh, a Converse employed Certified Industrial Hygienist (CIH), Certified Safety Professional (CSP), and Certified Environmental Manager (CEM). Two tests were conducted in each of the two subject locations.



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731 Pilot Road, Suite H, Las Vegas, Nevada 89119-4429

Telephone: (702) 269-8336 ♦ Facsimile: (702) 269-8353 ♦ e-mail: lasvegas@converseconsultants.com

The samples were sent using chain-of-custody methods for analysis to EMLab P&K (EML) in Phoenix, Arizona. EML is certified under the National Environmental Health Association's National Radon Proficiency Program.

The testing was performed using the Rad Elec E-PERM Electret Ion Chamber (refer to enclosed photograph) which was analyzed with the SPER-1 Electret Reader. The tests were collected at the lowest floor levels of the buildings sampled, in middle areas of the rooms, and at a height of approximately five feet above ground. The buildings had been closed as much as possible the two days before testing (e.g., sampling started Monday morning).

Results and Discussion

The radon testing results are described in Table 1. The laboratory report is enclosed.

Table 1
Radon Testing Results measured in picoCuries per Liter of air (pCi/L).

Location / Sample No.	Start Time and Date	End Time and Date	Results pCi/L
Tuscany House Dining Room / SDI601	0915 – 1/11/10	1545 – 1/14/10	1.3
Tuscany House Downstairs Bedroom / SBU916	0915 – 1/11/10	1545 – 1/14/10	0.9
BRC Office Main File Room / SDM355	0845 – 1/11/10	1515 – 1/14/10	2.0
BRC Office Landwell File Room / SBU791	0845 – 1/11/10	1515 – 1/14/10	2.0
<i>EPA Action Level for Mitigation</i>			4.0
<i>EPA Level for Homeowner to Consider Mitigation</i>			2.0
<i>National Average in Homes</i>			1.3

Note 1: Radon mitigation is relatively simple. The soil below the slab is exposed and a vent is sealed and attached to the hole and vented to the outdoors to provide another path for the gas besides going into the home. The EPA is encouraging new homes to be built with a mitigation system in place or with the main constituents present for ease of installing the system by the homeowners.

Note 2: University of Nevada Cooperative Extension data from three tests in the 89011 indicated radon levels below 4 pCi/L (refer to the enclosed map and chart).

Conclusions

Based upon the previously described results, the following conclusions are made:

1. The radon levels detected at the residence were below both the EPA Action Level and homeowner mitigation consideration level. The levels detected were also at or below the national average.
2. The radon levels detected at the BRC office were below the EPA Action Level and at the homeowner mitigation consideration level. The levels detected were above the national average by approximately 50%.

Recommendations

Based upon the previously described results and conclusions, the following recommendations are made:

1. Per EPA guidelines, no further action is recommended. However, consideration should be given to conducting a follow up to the testing during the summer months to confirm the results obtained under different climatic conditions.

Limitations

This report is for the use of Basic Remediation Corporation as it applies to the subject site. Converse is not responsible for any claims or damages associated with interpretation of available information. This assessment should not be regarded as a guarantee that no other hazardous conditions exist at the subject site. In the event that changes in the nature of the property occur, or additional relevant information about the property is brought to our attention, the conclusions and recommendations contained in this assessment may not be valid unless these changes and additional relevant information are reviewed and the conclusions and recommendations of this assessment are modified or verified in writing.

BRC
Project No. 09-43402-01
January 27, 2010
Page 4

Thank you for the opportunity to be of service. Should you have any questions or comments regarding this report, please do not hesitate to call.

Respectfully submitted,

CONVERSE CONSULTANTS



Dale W. Walsh, CIH, CSP, CEM
Certified Industrial Hygienist

DWW:ls

Encl: EMLab P&K Analysis Report
University of Nevada Cooperative Extension Clark County Radon
Test Results
Photographs
Sketch of BRC Office Sample Locations

Dist: 2/Addressee



EMLab P&K

Report for:

Mr. Dale Walsh
Converse Consultants, Las Vegas
731 Pilot Road
Suite H
Las Vegas, NV 89119-4429

Regarding: Project: 094340201; BRC Radon
EML ID: 617446

Approved by:

Dates of Analysis:
Radon in Air: 01-18-2010

Lab Director
Christine Meyer

Project SOPs: Radon in Air (20-137 Radon In Air)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5



The Proven Leader

North Phoenix Arizona Laboratory
1501 West Knudsen Drive, Phoenix, AZ 85027
800.651.4802 • Fax. 623.780.7695 • EMLAP# 102297

Radon Test Report

Converse Consultants
731 Pilot Road, Suite H
Las Vegas, NV 89119
Attn: Mr. Dale Walsh

EMLab ID#: 617446
Project ID: 094340201
Date Received: January 15, 2010
Date Analyzed: January 15, 2010
Certification #: NRPP#102969AL
NRPP#103751RT

Methods: Rad Elec E-PERM Electret Ion Chamber System samples were analyzed via a SPER-1 Electret Reader, Serial Number SIN00702. Short-term radon tests are intended to give you an indication of the radon levels during the measurement period in the areas tested. The results of the radon measurements that you performed are as follows:

Deployment Information

Start Test: 1/11/2010 9:00 AM
Finish Test: 1/14/2010 3:30 PM
Test State: NV-LE
Elevation (ft): 2100

Project Description: BRC Radon

Results

Electret Serial #	Sample Location	Device Type	Analysis Date	Analyst	Radon pCi/L
SDI601	Tuscany House Dining	SST	January 15, 2010	TEG	1.3
SBU916	Tuscany House Bedroom	SST	January 15, 2010	TEG	0.9
SDM355	BRC Office Main File Rm	SST	January 15, 2010	TEG	2.0
SBU791	BRC Office Loadwell File Rm	SST	January 15, 2010	TEG	2.0

Authorized Signature/Date:

Michael J. Magry 01/18/10

Quality Assurance Manager-Western Region

ENVIRONMENTAL MICROBIOLOGY LABORATORY, INC.
800.651.4802 • www.emlab.com • info@emlab.com



The Proven Leader

North Phoenix Arizona Laboratory
1501 West Knudsen Drive, Phoenix, AZ 85027
800.651.4802 • Fax: 623.780.7695 • EMLAP# 102297

What Do My Test Results Mean?

The concentration of radon in the home is measured in picocuries per liter of air (pCi/L). If your average radon level is less than 4.0 pCi/L, no action is necessary. However, radon levels less than 4.0 pCi/L can still pose some health risk, and in many cases can be reduced. The national average indoor radon level is about 1.3 pCi/L while the average outdoor radon concentration is about 0.4 pCi/L. The higher a home's radon concentration, the greater the health risks to you and your family.

What Do I Do If My Test Results Are Greater than 4.0 pCi/L?

If the test results are 4.0 pCi/L or greater, the EPA recommends that you mitigate your home. There are simple ways to fix a radon problem that aren't too costly, and even very high concentrations can be reduced to acceptable levels.

What Is the Health Risk Associated with Radon Gas?

Radon is a radioactive gas that comes from the natural breakdown of uranium in the soil. Radon is estimated to cause many thousands of deaths each year from lung cancer, and in fact, it is the second leading cause of lung cancer after smoking. If you smoke, and your home has high radon levels, your risk of lung cancer is especially high.

Where Can I Get Additional Information on Radon?

For more information, please refer to <http://www.epa.gov/radon/index.html>

Data Qualifiers

The *Data Qualifiers* identify issues or events that are relevant to your analytical results. A data qualifier includes information about the validity, the source of the data whether calculated, entered or estimated, and the value of an observation. In each case the data qualifiers provide significant information vital to the interpretation of the laboratory data.

Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984
Phoenix, AZ: 1501 W. Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (666) 666-6653



000617446

WEAT

ကဏ္ဍ: မြန်မာ့ ဇာတ်ကား

R/H	30	U
Temp	60	U

None
Light
Medium
Heavy

...	X
...	
...	
...	

	X

A small graph on a coordinate plane. The x-axis and y-axis are shown. A function is plotted that is zero for $x < 0$ and increases linearly for $x > 0$. The function is represented by a horizontal line at $y = 0$ for $x < 0$ and a line with a positive slope for $x > 0$.

X
C

4

Account No. _____ Page 1 of 1

Company: Converse Consultants

Address: 731 Pilot Road, Suite H

City, State, Zip: Las Vegas, NV 89119

Contact: Dale Walsh	Sampling Date/Time: 1/11/10 via 9 AM
---------------------	--------------------------------------

Phone: 702 263 7600	Project Zip Code: 89011
1-53	13403

Fax: 702 269 8353	Project ID: 07437020
1-1-12	Project: BRC

E-mail: Walter@CONVERT-UNIT.COM PO Number: 09434020

Results: ☒ Email ☒ Fax ☐ PO Number:

Special Instructions:

Sample Type Codes

A - Air B - Bulk D - Dust S - Swab T - Tape
W - Water WC - WallChek Other: E - Floor

Turn Around Time Codes - (TAT)*

STD Standard (DEFAULT)

ND - Next Business Day

SD - Same Business Day Rush

WH - Weekend/Holiday

* Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Analyses Requested¹

RADON

Sample Information

[illegible]

Deployment Information

The following information is required to calculate radon concentrations.

Start Date: 1/11/2010

Start Time: 9 AM

End Date: 1/14/2010

End Time: 3:30 PM

Test State: Nevada

Elevation: 2100 ft.
(Estimate acceptable)

Payment Information

<input checked="" type="checkbox"/>	On Account (must have preapproved credit)				
	Check Enclosed - Check Number:	Amount: \$			
	Credit Card Payment - (please circle one)	VISA	MC	AMEX	Discover
	Card Number -	Exp. Date		Signature	

Date	Time	Samples Relinquished By	Samples Received By
11/14/2010	4:40 PM	<i>[Signature]</i>	<i>[Signature]</i>
11/15/10	1010	LEDC	

** Please see service guide for requested services. Not all locations perform same analysis, please contact your Project Manager if you have questions.

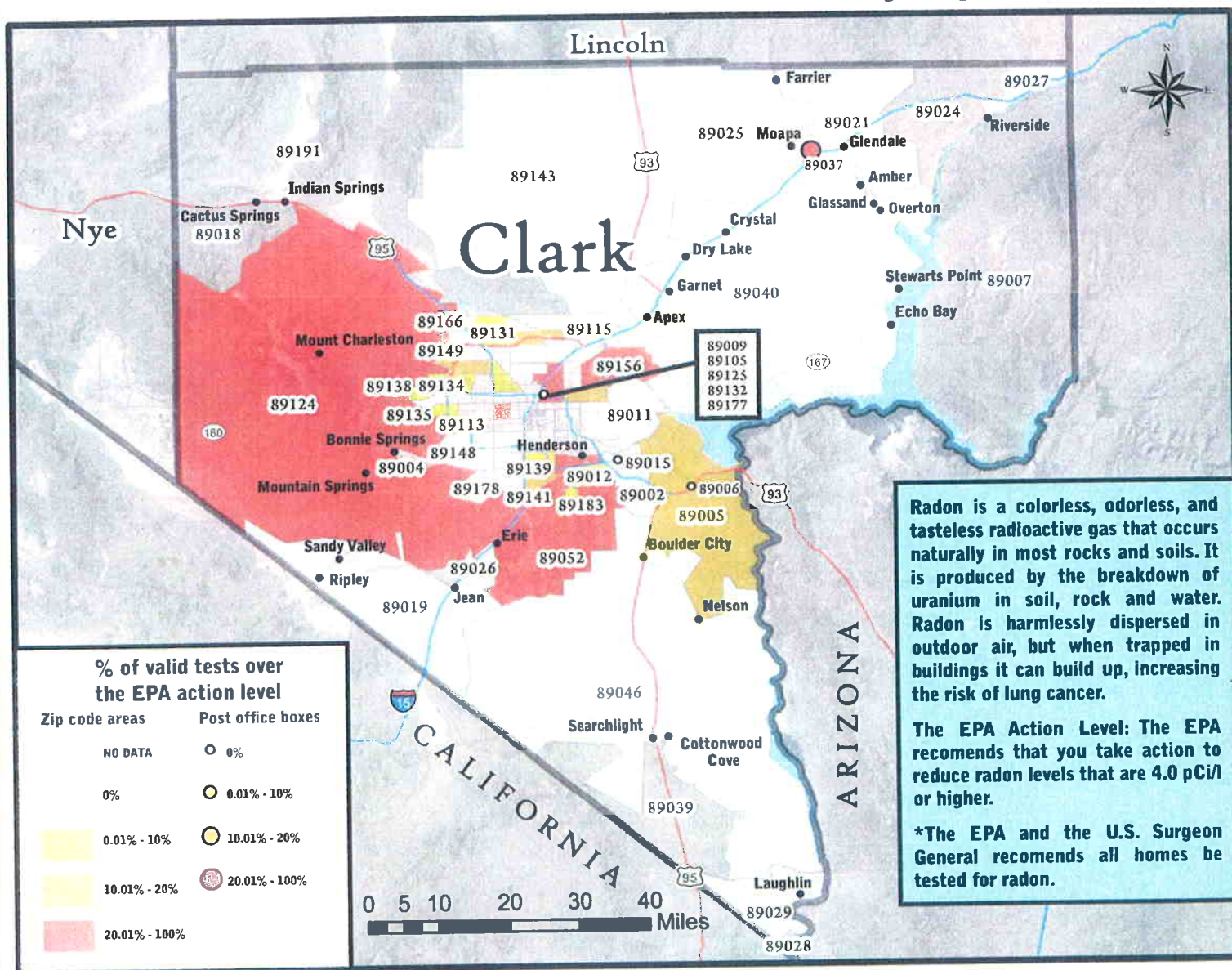
By Submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at www.emlabpk.com/terms.html



University of Nevada
Cooperative Extension

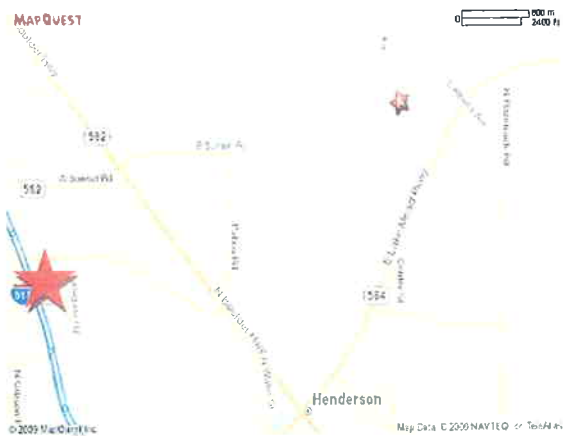
Clark County

Radon Test Results by Zip Code



Clark	Range of radon levels in pCi/l										Total Number of Tests	Radon Levels by pCi/l	
	< 0.4	0.4 - 0.5	0.5 - 0.6	0.6 - 0.7	0.7 - 0.8	0.8 - 0.9	0.9 - 1.0	1.0 - 1.1	1.1 - 1.2	> 1.2		Average	Highest
89007 HENDERSON	7	0	0	0	0	0	0	0	0	0	7	1.8	3.5
89008 BOULDER CITY	22	4	0	0	0	0	0	0	0	0	26	18.8	37.0
89009 P.O. Box	1	0	0	0	0	0	0	0	0	0	1	0.8	0.8
89010 HENDERSON	1	0	0	0	0	0	0	0	0	0	1	0.8	0.8
89011 HENDERSON	3	0	0	0	0	0	0	0	0	0	3	0.5	1.2
89012 HENDERSON	17	1	0	0	0	0	0	0	0	0	18	1.7	5.6
89014 HENDERSON	14	0	0	0	0	0	0	0	0	0	14	1.4	3.8
89015 HENDERSON	8	0	0	0	0	0	0	0	0	0	8	1.5	2.8
89019 JEAN	1	0	0	0	0	0	0	0	0	0	1	0.5	0.5
89021 LOGANDALE	2	0	0	0	0	0	0	0	0	0	2	1.6	1.8
89022 MOAPA	1	0	0	0	0	0	0	0	0	0	1	3.4	3.4
89027 MESQUITE	10	0	0	0	0	0	0	0	0	0	10	1.2	2.9
89029 LAUDON	4	0	0	0	0	0	0	0	0	0	4	1.5	1.7
89030 NORTH LAS VEGAS	1	1	0	0	0	0	0	0	0	0	2	50.0	5.1
89031 NORTH LAS VEGAS	7	0	0	0	0	0	0	0	0	0	7	1.0	2.0
89032 NORTH LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	0.5	0.7
89033 NORTH LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	0.5	0.5
89037 P.O. Box	0	1	0	0	0	0	0	0	0	0	1	1.4	2.3
89040 OVERTON	2	0	0	0	0	0	0	0	0	0	2	0.5	0.9
89044 HENDERSON	27	2	0	0	0	0	0	0	0	0	29	8.5	1.1
89046 SEARCHLIGHT	1	0	0	0	0	0	0	0	0	0	1	0.8	1.1
89052 HENDERSON	20	11	2	0	0	0	0	0	0	0	33	4.2	20.4
89074 HENDERSON	13	4	0	0	0	0	0	0	0	0	17	2.4	1.5
89081 NORTH LAS VEGAS	4	0	0	0	0	0	0	0	0	0	4	1.0	1.0
89084 NORTH LAS VEGAS	5	1	0	0	0	0	0	0	0	0	6	1.7	5.1
89087 NORTH LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	0.5	0.5
89088 NORTH LAS VEGAS	2	0	0	0	0	0	0	0	0	0	2	2.7	3.7
89101 LAS VEGAS	3	1	0	0	0	0	0	0	0	0	4	2.0	4.1
89102 LAS VEGAS	20	0	0	0	0	0	0	0	0	0	20	0.8	2.1
89103 LAS VEGAS	15	0	0	0	0	0	0	0	0	0	15	1.1	2.1
89104 LAS VEGAS	5	0	0	0	0	0	0	0	0	0	5	0.5	1.1
89105 P.O. Box	2	0	0	0	0	0	0	0	0	0	2	1.1	1.1
89106 LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	0.5	1.5
89107 LAS VEGAS	14	0	0	0	0	0	0	0	0	0	14	0.7	1.9
89108 LAS VEGAS	20	1	0	0	0	0	0	0	0	0	21	1.1	4.7
89110 LAS VEGAS	8	1	0	0	0	0	0	0	0	0	9	0.8	1.6
89113 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	1.3	1.6
89115 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	1.3	1.6

Clark	Range of radon levels in pCi/l										Total Number of Tests			Radon Levels by pCi/l		Relative Levels by pCi/l	
	< 0.4	0.4 - 0.5	0.5 - 0.6	0.6 - 0.7	0.7 - 0.8	0.8 - 0.9	0.9 - 1.0	1.0 - 1.1	1.1 - 1.2	> 1.2	Tests	Average	Highest	Average	Highest		
89117 LAS VEGAS	12	0	0	0	0	0	0	0	0	0	12	12	0	0.8	1.7		
89118 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	13	0	0.9	1.6		
89119 LAS VEGAS	13	0	0	0	0	0	0	0	0	0	13	11	0	0.8	1.5		
89120 LAS VEGAS	7	0	0	0	0	0	0	0	0	0	7	7	0	0.8	2.5		
89121 LAS VEGAS	10	0	0	0	0	0	0	0	0	0	10	10	0	1.2	1.6		
89122 LAS VEGAS	2	0	0	0	0	0	0	0	0	0	2	2	0	0.8	1.6		
89123 LAS VEGAS	22	1	0	0	0	0	0	0	0	0	23	22	1	4.4	1.6		
89124 LAS VEGAS	0	1	0	0	0	0	0	0	0	0	1	2	160	14.5	21.0		
89125 P.O. Box	1	0	0	0	0	0	0	0	0	0	1	1	0	0.8	1.4		
89126 LAS VEGAS	11	0	0	0	0	0	0	0	0	0	11	11	0	0.8	3.3		
89127 LAS VEGAS	7	1	0	0	0	0	0	0	0	0	8	7	1	12.5	1.1		
89128 LAS VEGAS	14	0	0	0	0	0	0	0	0	0	14	14	0	0.8	1.5		
89131 LAS VEGAS	11	1	0	0	0	0	0	0	0	0	12	11	1	8.3	1.6		
89132 P.O. Box	1	0	0	0	0	0	0	0	0	0	1	1	0	0.9	0.9		
89134 LAS VEGAS	28	1	0	0	0	0	0	0	0	0	29	28	1	3.7	1.2		
89135 LAS VEGAS	31	1	0	0	0	0	0	0	0	0	32	31	1	3.1	1.2		
89136 LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	1	0	0.5	0.5		
89138 LAS VEGAS	2	0	0	0	0	0	0	0	0	0	2	3	0	0.8	0.5		
89141 LAS VEGAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3		
89142 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	3	0	0.9	1.5		
89143 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	3	0	0.7	1.1		
89144 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	3	0	0.9	2.3		
89145 LAS VEGAS	7	0	0	0	0	0	0	0	0	0	7	6	0	0.8	1.4		
89146 LAS VEGAS	4	1	0	0	0	0	0	0	0	0	5	4	2	39.3	35.4		
89147 LAS VEGAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	1.0		
89148 LAS VEGAS	6	0	0	0	0	0	0	0	0	0	6	6	0	0.8	1.2		
89149 LAS VEGAS	5	0	0	0	0	0	0	0	0	0	5	5	0	0.6	1.7		
89150 LAS VEGAS	3	0	1	0	0	0	0	0	0	0	4	3	1	39.8	3.2		
89151 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	3	3	0	1.9	2.6		
89161 LAS VEGAS	3	0	0	0	0	0	0	0	0	0	1	1	0	0.7	0.7		
89166 LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	1	0	0.4	0.4		
89168 LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	1	0	0.7	0.7		
89177 P.O. Box	1	0	0	0	0	0	0	0	0	0	1	1	0	0.7	0.7		
89178 LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	1	0	0.6	0.6		
89179 LAS VEGAS	1	0	0	0	0	0	0	0	0	0	1	1	0	1.0	1.0		
89183 LAS VEGAS	0	0	0	0	0	0	0	0	0	0	0	0	1	28.8	3.1		
89183	4	1	2	3	3	0	0	0	0	0	10	11	0	7.6%	35.4		
% of Total Tests	97%	6%	1%	1%	0%	0%											



Map of 89011 Zip Code Area



E-Perm electrets ion chamber



BRC Landwell File Room



BRC Main File Room



BRC Office Building



Tuscany Residence Bedroom



Tuscany Residence Dining Room



Tuscany Residence

WEST WARM SPRINGS ROAD EMERGENCY EVACUATION ROUTE

OVERHEAD VIEW
NORTH EAST CORNER

North Parking Section

OVERHEAD VIEW
NORTH EAST CORNER

100' 100'



Sample
SBU791

Sample
SDM355

LEGEND

- FIRE EXTINGUISHER
- EMERGENCY EXITS
- EXIT DIRECTION

NORTH