

November 27, 2012



Kirk Nelson
Superintendent
Jordan Public Schools
500 Sunset Drive
Jordan, MN 55352

**RE: Jordan Public Schools Long-Term Radon Sample Results
IEA Project #201210086**

Dear Mr. Nelson:

As requested by Jordan Public Schools, IBA placed alpha track radon detectors for the purpose of evaluating radon levels in specific areas throughout the district. The radon detectors were deployed for a period of nine months.

INTRODUCTION

Radon is a colorless, odorless, radioactive gas that occurs naturally in soil, rocks, underground water supplies, and in the ambient air. According to the U.S. Environmental Protection Agency (EPA) and other scientific organizations, naturally-occurring radon gas has been associated with an increased risk of developing lung cancer. The chances of developing lung cancer from radon exposure are dependent on several factors, including individual susceptibility and, perhaps more importantly, the dose and duration of exposure. The Minnesota Department of Health (MOH) and EPA recommend that schools test radon levels every five years.

IBA placed alpha track detectors in frequently occupied areas throughout the district for the purpose of sampling for radon in accordance with the EPA's *Radon Measurement in Schools (Revised Edition 1993)*. A total of 93 detectors were placed from February 17, 2012 through November 5, 2012. The detectors were analyzed by Landauer, Inc. The sampling and analysis methodologies are provided in Appendix A.

EVALUATION CRITERIA

The MOH and the EPA have established a recommended action level in frequently occupied areas of 4.0 picoCuries per liter (pCi/L) for an annual average. Samples were deployed for a period of approximately nine months. Since sampling occurred over three seasons, both "open" and "closed" building conditions were present due to the configuration of the heating, ventilation, and air-conditioning system.

Consequently, sampling under these conditions led to an overall case result. MOH recommends follow-up testing for sampling results at certain levels. Please refer to the following MOH chart for guidelines:

RESULTS (pCi/L)	RECOMMENDED ACTION
LESS THAN 2	Consider performing a sampling period such as a three season long-term test
2 TO 10	Perform long-term test over three seasons
GREATER THAN 10	Perform a three season long-term test.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, rNC
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BROOKLYN PARK
9201 West Broadway, #600
Brooklyn Park, MN 55445
763-315-7900 /FAX 763-315-7920
800-233-9513

MANKATO
610 North Rh-erfront Drive
Mankato, MN 56001
507-345-8818 /FAX 507-345-5301
800-872-1260

ROCHESTER
210 Woodlake Drive SE
Rochester, MN 55904
507-281-6664 IF AX 507-281-6695
800-233-9513

OMAHA
7887 "L" Street
Ralston, NE 68127
402-339-6240 IF AX 402-339-7504
800-233-9513

RESULTS & DISCUSSION

The laboratory report, which includes sampling locations, is provided in Appendix B. The Chain of Custody is provided in Appendix C. Following are summary results for each building.

Jordan High School

A total of 26 detectors were placed throughout Jordan High School. The results indicated that radon levels were below the action level of 4 pCi/L. See Table I below for a summary of the results:

TABLE 1: JORDAN HIGH SCHOOL RANGE OF RESULTS				
	0.0 - 1.9 pCi/L	2.0 - 2.9 pCi/L	3.0 - 3.9 pCi/L	>40Ci/L
Number of Tests	24	2	0	0
Rooms between 2.0 and 3.9 nCi/L: NI03 and S503				

pCi/L: picocuries per liter

Jordan Middle School

A total of 32 detectors were placed throughout Jordan Middle School. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 2 below for a summary of the results:

TABLE 2: JORDAN MIDDLE SCHOOL RANGE OF RESULTS				
	0.0 - 1.9 pCi/L	2.0 - 2.9 pCi/L	3.0 - 3.9 pCi/L	>40Ci/L
Number of Tests	32	0	0	0

pCi/L: picocuries per liter

Jordan Elementary School

A total of 35 detectors were placed throughout Jordan Elementary School. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 3 below for a summary of the results:

TABLE 3: JORDAN ELEMENTARY SCHOOL RANGE OF RESULTS				
	0.0 - 1.9 pCi/L	2.0 - 2.9 pCi/L	3.0 - 3.9 pCi/L	>40Ci/L
Number of Tests	35	0	0	0

pCi/L: picocuries per liter

CONCLUSIONS & RECOMMENDATIONS

The radon levels in the sampled locations were below the EPA action level of 4 pCi/L; therefore, no further action is required at this time.

GENERAL COMMENTS

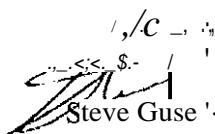
The analysis and opinions expressed in this report are based upon data obtained from radon sampling at Jordan Public Schools and are representative of the locations and time period sampled. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted indoor air quality practices. Other than as provided in the preceding sentence and in our Proposal #2233 dated January 24, 2012 regarding radon sampling throughout the district, including the General Conditions attached thereto, no warranties are extended or made.

IEA appreciates the opportunity to submit this analysis to Jordan Public Schools. Should you require additional radon testing or have any questions regarding radon or any other environmental, health, or safety-related concerns please do not hesitate to contact our office.

Sincerely,

IEA, INC.


Steve Guse
Environmental Consultant

SG/slj 112712

Appendix A

Methodology

Sampling Methodology

IEA placed alpha track radon detectors designed specifically for the detection of alpha particle activity caused by the decay of Radon-222 and its daughter products. The detector is made of an electrically conductive material and contains an alpha-particle sensitive registration material or foil. The detector has a cylindrical shape and completely encloses the foil. Air and radon gas can diffuse into the detector chamber through a cellulose filter. Individual detectors are uniquely identified with a number and corresponding bar code.

Upon receipt at the analytical laboratory, detectors are logged in and unique numbers assigned to each detector foil. Sample preparation is by an etching process. The foils are chemically etched after being loaded into a multi-cell etching chamber.

All foils are checked for both background and sensitivity before being used, with rejected material being discarded to prevent it from being used accidentally. During processing, a blank is included with each run. Monitors exposed to known concentration are processed weekly. Blind tests, with monitors exposed to an unknown level, are run twice each month with six (6) replicates.

For each foil/monitor, the dose calculation program calculates the number of days the monitor was exposed in the field. The program calculates the average track density (tracks per square millimeter) subtracts a background track density and then multiplies by the calibration factor to give total integrated exposure. This number is divided by the number of days used to derive the average radon concentration. The minimum value reported is 0.1 pCi/L.

Any unusual conditions are noted on the processing form and shown on the exposure report. All exposure reports are reviewed by the QA vice-president before being mailed to IEA.

Results received by IEA are again reviewed for completeness by the Laboratory Quality Manager.

Appendix B

*Analytical Results and
Sampling Locations*

Radon Monitoring Report

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9201 i,,i. BROADVJAY STE 600
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LANDAUER

Landauer, Inc. 2 Science Rond Glenwood, Illinois 60425-1586
Telepho11c: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0408080

PROGP.M Nf\l"JE; JORDP1N MI GH

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/1-days	Avg. Radon Cone. pCi/l	
-2P3...., i	I.....,"	11-1-1:1:1-1,1:..	Ob--t"IOV 12.'	JO, ,,,A\ Hi.GH SCHOOL S5111	350.7 ±1.6.7	1.3 ± 0.06	
4854-444	DRN	17--F'EB--12	05--..NCN--12	JORDAN HIGH SCHOOL S504	318.0 ± 15.7	1.2 ± 0.06	
4-85/f-44-7	DRN	1-I-f'EB--I.Z	05--NOV-12	JORDAN HIGH SCHOOL OFFICE TOP OF MAILBO><ES	309.7 ±15.5	1.2 ± 0.06	
4854449	DRN	17-FEil--12	05-NOV--12	JORDAN HIGH SCHOOL BAND OFFICE	918.6 ± 28.5	3.5 ±0.11	
48544. 10	DR.N	:I.7--f"EB-12'	05-NOV-12	.JORDAN HIGH SCHOOL I\1104	289.2 ± 14.9	1.1 ± 0.06	
4854454	ORN	17 ...FEB -12	05---NOV--.t 2	JORDAN HIGH SCHOOL E401	340.4 ± 16.4	L3 ± 0.06	
4854-456	DHN	1 7--F"EB-12	05-NOV- :t :	JORDAN HIGH SCHOOL NI.OO	415.3 ±18.4	1.6 ± 0.07	
48544!57	DR\ I	I. 7-FEB---12	05-NOV--12	JORDAN HIGH SCHOOL S511D	396.6 ± 17.9	I,5 ± 0.07	
4854462	DRN	1 7-f--E.B-- J. 2	05-NOV-12	JORDAN HIGH SCHOOL N102	295.7 ± 15.1	1.1 ± 0.06	
4854463	DP.N	1 7 .FEB... 1 ;!..	0'5-NG\J-12	.JORDAN HJ:GH SCHOOL Nit:5 TOP OF FWI'1E'. HOOD	.182.7 ± 11.3	0 .7 ± 0.04	

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 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0408080

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Detector Number	Detector Type	Starting Date	Ending Date	Field Data & Comments	Exposure pCi-days	Avg. Radon Cone. pCi/l	
--,,= <>ti	—	11 {-1- t....:;<- ::,.;,; ,1-J.,v ! .<		JORDAN HIGH SCHOOL N103	518.1 ±20.8	2.0 ±0.0B	
4854471	DRN	17--FEB-12	05 - NOV-12	JORDAN HIGH SCHOOL N111	347. () ±16.6	1.3 ±0.00	
-41354.II-72	DHN	17-FEB-12	05-NOV-12	JORDAN HIGH SCHOOL S509	:320.8 ±15.8	1.2 ±0,00	
4854473	DRN	17 ...FEB-12	05---NOV-12	JORDAN HIGH SCHOOL S513	:374.1 ±17.3	1.4 ±0.07	
4854475	DRN	17--FEB--12	05--!'-IOV-12	JORDAN HIGH SCHOOL 5503	680.0 ±24.2	2.6 ±0.09	
4854.1{-76	DRN	11...F"EB-1:::	o:s-NOV-12	JORDAN HIGH SCHOOL N11.5	447.3 :!19.1	1.7 ±0.07	
485447H	DRN	.t7-FED--1:::	05--NOV--12	JORDAN HIGH SCHOOL CUST.OFFICE	155. 1 ±10.2	0.6 ±0.04	
48544.FJ.9	DRN	17-F"E:ll-12	05--NOV--12	JORDAN HIGH SCHOOL S505	418.2 ±18.4	1.6 ±0.07	
48'54497	DRN	17-F"EB-12	05-NDV-12	JORDAN HIGH SCHOOL S517	305.9 t15.4	1.2 ±0.06	
4-8544-99	DIN	1,7..,n:B-12	05--NOV--12	JQRDAR>.I HIGH SCHOOL E406	354.4 ±16.8	1.4 ±0.06	

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Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Detector Number	Detector Type	Starting Date	Ending Date	Field Data & Comments	Exposure pCi/l-days	Avg. Radon Cone. pCi/l	
T	DHN	17--FEB--12	05-NOV--12	JORDAN HIGH SCHOOL 5515	366.6 ±17.1	1.4. ±0.07	
4 4964	DR.N	17-r-EB--12	05--NOV-12	JCIRDAN HIGH SCHOOL LOUNGE	320.8 ±15.7	1.2 ±0.06	
4 4985	DRN	17-FEB--1;:::	05--NOV--12	JORDAN HIGH SCHOOL N108	251.7 ±13.6	1.0 ±0.05	
4 4989	DRN	1 "7-FEB-12	05-NOV--1:Z	JORDAN HIGH SCHOOL N109 TOP OF' FUME HOOD	448.1 ±19.0	1.7 ±0.07	
4 4990	DHN	17-FE:B-12	05-NOV--12	JORDAN HIGH SCHOOL MEDIA CENTER/BE:AM BY PILLAR	174.9 ±10M9	0.7 ±0.04	
					331n/ ±16.Q	1.3 ±0.06	

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Acct. No. 04-08080

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Detector Number	Detector Type	Starting Date	Ending Date	Field Data/ Comments	Exposure pCi/l-days	Avg. Radon Cone. pCi/l	
4S::rj;J+rzr	TIRN	1.i: I-I-E.u 12	Q.,--NL,\. ...1 2	JORUAN MIDDLE SCHOOL BAND OF 'F" ICE TOP OF CABINET	140.4 ±9.5	0.5 ±0.04-	
•18544-S2	DHN	17-FEB--12	05-NOV-12	JORDAN MIDDLE SCHOOL 410	71.6 ±6.03	0.3 ±0.02	
48544H3	DP.N	1.7.--FEB...12	05-NOV--1Z	JORDAN MIDDLE SCHOOL 108	74.4 ±6.20	0.3 ±0.02	
4-85441:18	DRN	17-FEB-12	0-5-NOV-1.2	JORDAN MIDDLE SCHOOL 201	74.4 ±6.20	0.3 ±0.02	
4854491	DRIJ	17-Ft:B-12	05--MOV--12	JORDAN MIDDLE SCHOOL 406	14b.8 ±9.8	0.6 ±0.04	
485-!!-49 -	DRN	17-F"EB-12	05-NOV-12.	JORDAN MIDDLE SCHOOL ;301	6L6 ±5.4-0	0.2 ±0.02	
48544"18	DRN	17-FEB--12	05-NOV-12	JORDAN MIDDLE SCHOOL 107	72.5 ±6.09	003 :to.oz	
4854500	DR.N	17-FEB--12	0-5--NOV-12	JORDAN MIDDLE SCHOOL 206	92.7 ±7.24	0.4 ±0.03	
4854!502	DRI"-J	17-FEB .12	05-NOV-12	JORDAN MIDDLE SCHOOL 415	78.0 ±6.41	0 .3 ±0.02	
4854504	DRN	17-f"EB--12	05-!"-!0V--12	JORDAN MIDDLE SCHOOL 5(II)	123.S ±8.8	0.5 ±0.03	
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ttTN: DENICE KUCHTA
9'. 0' J. BROAD JAY STE 600
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L:md.iuer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
Telephone: (R00) 528-8327 Facsimile: (708) 755-7048

Acct. No.

0408080

PROGRAM NAME: JORDAN MIDDLE

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	EXP. JSURE pCi/1-days	Avg. Radon Conc. pCi/l	
4854511	DRN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL STAFF LOUNGE 507 ABOVE SINK	91.7 ±7.19	0.4 ±0.13	
4854512	DHN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 413	57.9 ±5.16	0.2 ±0.02	
4854517	DRN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 307	5L5 ±4.72	0.2 ±0.02	
4854518	DRR-I	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL OFFICE TOP OF MAILBO>ES	67.1 ±5.75	0.3 ±0.02	
4854519	DP.N	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 404	40.6 ±3.22	0.2 ±0.01	
4854521	DRN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 314	40.6 ±3M92.	0.2 ±0.01	
4854528	DRN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 411	57.0 ±5.10	0.2 ±0.02	
4,954;.jz9	DRN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 412	119.2 ±8.6	0. ±0.03	
ll-P.54:::i'.36	DRN	17-FEB-12	05-NOV-12	JORDAN MIDDLE SCHOOL 311	72.5 ±6.09	0.3 ±0.02	

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Landauer, Inc. 2 Science Ro.id Glenwoo,L Illinois 60425-1586
Telephone: (800) 528-8327 facsimile: (708) 755-7048

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Detector Number	Detector Type	Starting Date	Ending Date	Field Data/ Comments	Exposure pCi/l-days	Avg. Radon Cone. pCi/l	
, :S. <41	W.,,	17-FEB--:1.2	05-..NOV----12	JORDAN MIDDLE SCHOOL SHOP CLASSROOM TOP OF CABINET	100.0 ±7.62	0.4 ±On03	
4854544	DHN	17--FEB.-12	O!."i-NOV-1 2	JORDAN M rDOL.E SCHOOL 41.7	72.5 :t6.09	0.3 :t0.0Z	
4854943	DRN	17-F'EB-1Z	(.l':j-NOV--1.2	JORDAN MIDDLE SCHOOL 210	46.9 ±4.40	0.2 ±().02:	
4854949	DHN	17--FEE---12	05-NOV-1.2	JORDAN MIDDLE SCHOOL 310 TOP OF P.A.	105.8 ±7.9	0.4 ±0.03	
48549/.12	D!-1.N	17 ...-FEB--12	05--NOV-- 12	,JORDAN MIDDLE SCHOOL 309	5L2 :t4.72	0.Z ±1.).0Z	
4854966	DRN	1 '7-FE:B--12	05--NOV-12	JORDAN MIDDLE SCHOOL 418	69 1 :ts.a.a	0.3 ±0.02	
4854971	DRI"-J	17--FE.B-1 ::'.	05-NOV..- 1 :Z'.	. JORDAN MIDDLE SCHOOL 111	62.0 ±5.43	0,2 ±0.02	
4854972	DR.N	17--F"E,B--12	05--NOV--1 Z	JORDAN M!DDLE.E SCHOOL 204	56.6 ±5.08	0.2 ±0.02	
4854980	DR!"-I	17-FEB-12	05-NO',J.-12	JORDAN MIDDLE SCHOOL LAUNDRY ROOM BY ICE MACHINE	1.66.6 ±10.6	0. ±0.()4	
485-4983	ORN	17-FEH-12	05-NOV-12	,JORDAN MIDDLE SCHOOL 102	91.4 ±7.16	0.3 ±0.03	

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La11<la11:r, Im: 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 104osoeo

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Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Cone. pCi/l	
4854992))RN	17- -EB-12	05..NOV..12	Jordan MIDDLE SCHOOL 312 JORDAN MIDDLE: SCHOOL ") 318	6'1:0 ±5 .43	0 ±0.0.2	

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Landauer, Inc. 2 Science Roud Glenwood, Illinois (042S-1:i86
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

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- - .:i" u	DH!*	17-.-!- i... i.J-L,t.	0:;:t"•J1JV-1:0:	...iur.uAN g.l.i..l"11:: N, Ar, r 7 4	460.::; ±19.5	1.8 ±(i.07	
485411-46	DH!	17-Ft:B..12	05--NOV-12	.JIJRDAI ELEMENTARY 83	224 3 ±12 8	0 . 9 ±0 . 05	
.I 854459	DRIJ	.t"?-FEB-12	0)--NDV-12	.JDROAI ELEMENTARY 61	212. : ±12. 4	0 . 8 ±0 . 05	
4854.f1-b0	DFL.N	17--FE:B..12	05--NOV---1:?	.JORDAN ELEMENTARY 79	241.B ±13.4	0 . 9 ±0 . 05	
-oII-854465	DP.N	17--+"EB---12	0:s--MDV-12	JORDA ! ! ELEMENTARY 57	161.5 ±10. 4	0 . 6 ±0 . 04	
4-854467	DR.N	17--F"ED -12	05-NOV--12	JORDAN ELEMENTARY 21	1 "6. 5 ±11.a	0 . 8 ±0 . 05	
48544-69	DRN	17-FEB--12	05-NDV---12	• ..IORDAt ELEMENT ARY 23	14.1.3 ±9a6	Cl.5 ±0 . 04	
4854470	DRN	17--FE:13..12.	0 "5-NOV--12	JORDAN ELEMENTARY 30	167.0 ±10., 7	0.6 ±0.04,	
•/4854477	DRN	17".FEB-".12	05--ND'-/12.	JORDAN ELEMENTARY 48	268 7 ±14. 3	1.Cl ±0 . 05	
485.q . 79	DR.N	17-f"EB--12	05-NtlV--12	JORDAN ELEMENTARY 26	198.4 ±1.9	0 . e ±0 . 05	
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Land.mer, Inc. 2 Science Ro d Glenwood, Illinois 60425-1586
Telephone: (800) 523-8327 Facsimile: (708) 755-7048

Acct. No. 0408080

PROG!;;AM I-JI.;ME;; .JDHDAN EL

Detector Number	Detector Type	Starting Date	Biding Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Cone. pCi/l	
S - 1fRN	'[r'-Ff::H-1::'.	05 NOV '1'Z.	.JORDAN ELEMENTARY 85		348.8 :t16.6	1.3 ± 0.06	
4B544.S6	DH!-!	.17--FE.B--12	05- ..ND'v --12	.JORDAN ELEMENTAHV ZO	253.0 ±13.8	1.0 ± 0.05	
"-1-854487	DRN	17-FEB--12	05--NOV--1.2	JORDAN ELEM.F.:NTARY 66 ABOVE SINK	182.7 ±11.3	0.7 ± 0.04	
4854-4'10	ORM	1 '?--FEB-12	05--NOV....t 2	.JORDAN ELEMENTARY 7	132.1 :t9.2	0 .5 ± 0.04	
4.8 54495	DHN	17-f--EB--12	05-ltOV-- 1 Z	JORDAN ELEMENTARY 71	2.13.2 :!:12- 4	0 .S ± 0.05	
4854496	DRN	1.r--FEB--12	05--NOV-12	,JORDAN ELEMENTARY 6 4	.t65.2 ±10.6	0 .6 ± 0.04	
4854505	DHN	1.7--FEB-1;;:	05-NOV--12	JORDAN ELEMENTARY 75	296.6 ± 15 1	1.1 ± 0.06	
4854 5(!6	DHN	1.7-F"EB-12	05--NOV--12	JORDAN ELEMENTARY 31	158.7 ±10.3	0 .6 ± 0.04	
o!!-854507	Dfl.N	1 7-FtJJ--1 Z	05-NOV-1'Z	.JORDAN ELEMENTARY 50	253.9 :H3.8	! • 0 ± 0.05	
4854509	DH\	17-rE:B...:l'.2	05--NOV--12	JORDAN ELEMENT...RY 72	21.0.4 ±12.J	0 .8 ± 0.05	

G) C) @ C) RE.SULTS RELATED ONLY TO MONT.TORS
AS RECEIVED BY LANDAUER.
RECEIVED BY LANDAUER.

a.c. Release Process No. Report Date | Date Received
LMR A22551 14-NOV-12 07-NOV-12

0 ?AGE 2 OF 4 R)

Radon Monitoring Report

LANDAUER

Ir STITUE F'OR EN\,IR
,".SBESSIONT
fTTN: DEIJICE JUCHTA
920.1 L BROADWAY STE 600
BF-I.DOK!_ YN PARA, IIN '55445

La11d u r, Inc. 2 Science Road Glenwood, Illinois 60425-1 586
Telephone: (800) 528-8327 Facsimile: (708) 7.55-7048

Acct. No. | 04osoao |

PROGHR".\M NAME.: JOHDAN E]

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Cone. pCi/l	
-7,..,.,.,.,.,.,J..	DRN	1.7-FEB-12	05--NOV--12.	Jur- .wAN ELE1 'EMENTARY 37	188.2 ±11.5	0.7 ±0.04	
485451.4-	DRN	:17-FEL1-12	05--NOV--12	JORDAN ELEMENTARY 42	183.6 ±1L3	0.7 ±0.04	
4854515	DRN	17-FEL1-12	05--NOV--12	JORDAN ELEMENTARY 41	137.6 ±9.4	0.5 ±0.04	
4854-516	DRhI	1.7-FEB--12	05-NIOV-12	JORDAN ELEMENTARY 73	218.7 ±12.6	0.a ±0.05	
48545 :1	DRN	17--FEf!--12	05--NOV-12	,JORDAN ELEMENTARY 67	156.0 :H0.2	0.6 ±0.04	
4854523	DRN	17-FEB-1.2	05-NOV--12	JORDAN ELEMENTARY 24	231.7 t13.1	0. ±0.05	
4854!526	DRN	17---FEB--12	05-MDV--12	JORDAN ELEMENTARY 44	184.5 :tl 1.4	0.7 ±0.04	
4854-5 -2	DP..N	17-Ff...:B--12.	05-NOV--1. Z	JORDAN ELEMENTARY 25	192.8 ±11.7	0.7 ±0,.04	
4854548	DRM	17-FEB-1Z	05--NGV--12	JORDAN ELEMENTARY 46	313.4 ±15 6	1.2 ±0.06	
48545-1"9	DRN	17--FfC"B-iZ	05--NOV--12	,JOROAM ELEMENTARY 36	165.2 ±10.6	0. ±0.04	

(1) (2) (3) (4) (5) (6) (7) (8)

Rf:SULTEI RELATED O!NLY TO MOM!TDRS
AS RECEIVED BY LANDAUER.

Q.C. Release Process No. Report Date | Date Received
LMR AZ2551 14-NOV-12 07-NDV-12

PAGE 3 OF 4

Radon Monitoring Report

INSTI.TUE i--oR E:NVIH
ASSESSMENT
t:TTN DENICE KUCHT," :\
9;..n;_ W .. BR.DMJWIW STE". 600
Bfl.00*::LYN PARK, MN ::i5445

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0408080

PRQGHAM /,,ME ,JORDAN EL

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	EXP.OSURE pCi/l-days	Avg. Radon Cone. pCi/l	
14E5455r	L'r-tf,f	17-FEB-13-L2	0::> NOV- U.	JORDAN <.LEMENTARY 65	223.3 ±12.8	0.9 ±0.05	
4854554	lRN	17-FEB--t.2	O:i--NOV--12	JORDAN ELEMENTARY 69	175.J. ±11.0	0.7 ±0.04	
•1-854882	DRN	17-n;::1:::-12	05--NOV--12	JORDAN ELEMENTARY 68	165.0 ±10.5	0.6 ±0.04	
4854979	DRN	17-FEB--12	05--tmV--IZ	JORDAN ELEMENTARY 29	201. 1 ±11.9	0.a ±0.05	
.li-854VI.3-8	DRN	17-F"E:ll- 1"	05--.NOV--12	,,JORDAN ELEMENTARY 6 STAFF WORKROOM	174.9 ±10.9	0. ±0.04	

(i) 0 (J) C R (J) R (J) R ..
RESULTS RELATED ONLY TO MONITORING
AS RECEIVED BY LANDAUER.

A.C. Release Process No. Report Date | Date Received
LMR A22551 14-NOV-12 07-NOV-12

PAGE 4 OF 4

Appendix C

Chain of Custody

Aroha Track Detector Log

School/Organization: ISLM
 Telephone: (510) 555-1234
 Address:
 City:
 State: Zip:
 Contact Person: Jill V. Smith
 Position: Please circle all that apply:
 Superintendent Principal Buildings & Grounds Supervisor
 ERK Coordinator Asbestos Program Manager
 Other:

(Return original to IEA with sample) Page 1 of 2

Date Package Shipped:	IEA Project #:
7/16/12	201210086
Carrier:	Fed Ex (U.S. Mail, Fed. Express, UPS, Other)
Package Shipped From:	
If All Detectors Use DDIY	
Date of Package Delivery:	
Condition of Package on Receipt:	
Signature of Package Recipient:	

Detector Number	Installation Date	Removal Date	Sampling Location			Notes Potential influencing factors (i.e. construction, maintenance)
			Building	CAD #	Room & Position in Room	
4854456	2/17/12	11/5/12	Jordan High School		A1 100/	
4854462					A1 IDJ.-J	
J/(')IJIJ6,8					AJ 1D3j	
U I/H',O					A1/O'-/ I	
1,1-146,7-				N105 ✓	Top of Fume Hood	
UQC: /q/lq				N109 ✓	Top of Fume Hood	
,!/f(q7J				AJ111 I		
!j. r.;L/Qic;				N108 ✓		
4/?SJ.lu..<.				A1l6 J		
"					Top of 2nd Sink	
4es4../r;-1,				f4nl ./		
l/tK•/4qq				E406 ✓		
1/85</•/q7				S517 ✓		
R 4Cf6'1/				55/S'j		
1/ r;l./473	1/	V		<c:13 j		

Detector Installed by: Jill V. Smith

Detector Removed by: Jill V. Smith

Logbook Completed by: SAC

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Alpha:rrackDetector Log

(Return original to IEA with sample) Page ____ of --A.

School/Organization: <u>Jg,do P, bh Schools</u>
Telephone: (5) <u>1-92 -) DO</u>
Address:
City:
State: _____ Zip: _____
Contact Person: <u>Tne :fo, ei TM g;6?k</u>
Position: Please circle all that apply. ----- = <u>Superintendent</u> <u>Principal</u> <u>Buildings & Grounds Supervisor</u> <u>ERK Coordinator</u> <u>Asbestos Program Manager</u> Other: _____

Date Package Shipped: <u>7/7/08</u>	IEA Project #: <u>20121008</u>
Carrier <u>--r-- X-</u>	(U.S. Mail, Fed. Express, UPS, Other)
Package Shipped From:	

DATE OF PACKAGE DELIVERY: _____	
Condition of Package on Receipt: _____	
Signature of Package Recipient: <u>smb1111111.iiau,,i,,</u>	

<u>Nmmier</u>	<u>lInstalUIR</u>	<u>Y</u>	<u>Y</u>	<u>fC(Qrs (Le: Potential infilMen. cling</u>
<u>D111c1ff"</u>				<u>maintenance)</u>
<u>II/ i:;-z,-</u>	<u>i"lJr1J I1. lV'11</u>	<u>...Jo.,-\ U</u>	<u>a l,, <: t.-"</u>	<u>(SII Oj</u>
<u>IJKC:Ii 1,/J</u>				<u>55 II 'i J</u>
<u>Lt>c;;IJL/J"</u>				<u><r;Oq .j</u>
<u>L r,-4J./()</u>				<u>i;-05</u>
<u>4IX1-1./7c:</u>				<u>5 03 J</u>
<u>1.1cf1/L/1.1</u>				<u>C.1';ot./ J</u>
<u>I,tJ,,-m7</u>				<u><r;-o')</u>
<u>I.II;r;:.. -</u>				<u>fledia -/ 16(' cl t.;<?t< M I, <'>ufl .D;/ioJ'</u>
<u>III\ s"IJ./U7</u>				<u>D!f:r e j</u>
<u>I1./12C;4<le,7</u>				<u>IDf o"i /11.,'J)\q<(</u>
<u>L/ >.i'l t.i"u</u>				<u>LouAn.0.J</u>
<u>luq,.;--rn,</u>	<u>I</u>	<u>I</u>	<u>, l/</u>	<u>'tL. J 111r,,</u>
				<u>..,./. 11/r,c,</u>

Detector Installed by: 5Jrve,- Cu u

Detector Removed by: flcv<. Qt u. K

Logbook Completed by: 5/Ck.:t C: u e
O:\EPDM\LABORATORY\BOILER PLATE DOCUMENTS\ALPHA TRACK DETECTOR LOG.DOC

IEA Inc.

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Brooklyn Park, MN 55445**

163-315-1900

Toll Free 1-800-233-9513

Alpha Track Detector. Ldg

(Return original to IEA with sample) Page of J

School/Organization: <u>Jccla-, Pull-</u>	<u>ScJ,oa.</u>	
Address: _____		
City: _____		
State: _____	Zip: _____	
Contact Person: <u>To& v'..:j t- L....[3.13 k..</u>		
Position: Please circle all that apply. -----		
Superintendent	Principal	<u>Buildings & Grounds Supervisor</u>
ERK Coordinator	Asbestos Program Manager	
Other: _____		

Date Package Shipped:	IEA Project#:
<u>201210086</u>	
Carrier	(U.S. Mail, Fed. Express, UPS, Other)
Package Shipped From:	
FnIEAInratIn, use oval	
Date of Package Delivery:	
Condition of Package on Receipt:	
Signature of Package Reipient:	

<u>ttctter ..</u>	<u>1nsullat11,a</u>	<u>.....</u>	<u>1tXc}Jt,.,.,.1</u>	<u>saj11111fju1rnf</u>	<u>Hites ></u>
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<u>w '51'1</u>	<u>?-117/1')..l/(,11</u>	<u>l" "T,:_r_L"</u>	<u>;t s.vi - <rl,,,:A/</u>	<u>L/{)-/-/</u>	<u>'mafnenante)</u>
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<u>1/ 4t;J.j1</u>				<u>YI7 j</u>	
<u>1,1--Q</u>				<u>\L9J</u>	
<u>4S54c,04</u>				<u>Sol</u>	
<u>II./ t%t/74</u>				<u>1:lo,J</u>	
<u>'i9S'l'f<i</u>				<u>fflfect'</u>	
<u>l./9t;"/ql)</u>				<u>T"r III {j-/i;n,+</u>	
<u>5!.iC'l/.J</u>				<u>31 ;</u>	
<u>1.ft,?4q {,</u>	<u>!/</u>	<u>I</u>	<u>I</u>	<u>31 tc j</u>	
<u>Detector Installed by: 5/-c ur, C.. I'</u>				<u>31 L-f /</u>	
<u>Detector Removed by: S'/CCC (>.c.51').</u>				<u>-31)_ I</u>	
<u>Logbook Completed by: Sf cue- /'lc?l</u>					



163-315-1900
Toll Free 1-800-233-9513



Alpha Track | Tetectbr log

(Return original to IEA with sample) Page ? of 3

School/Organi llqn: Jocclc2,11 PukL.c Sc4ool5

Telephone: (5J.) 491 - lo;lo.e

Address: _____

City: _____

State: _____, Zip: _____

Contact Person: Mitl...=:::V..c3!i.t.l. T.L...MJ..82<...1.5 .ffk

Position: Please circle all that apply, -----

S perintendent Principal/Buildings & Grounds Supervisor

ERK Coordinator Asbestos r e

Other: _____

Date Package Shipped:

1/16/12

IEA Project #:

20121003

(U.S. Mail, Fed. Express, UPS, Other)

Carrier: UPS

Package Shipped From:

Date of Package Delivery:

Condition of Package on Receipt:

Signature of Package Recipient:

Detector Number	Installation Date	Removal Date	Sampling Location			Notes Potential influencing factors (i.e. construction, maintenance)
			Building	CAD #	Room # Position in Room	
4854536	2/17/12	11/5/12	Jordan Middle School		311 I	
4854949					1 JDJ 110" a-r P.4.	
4854962					309 ./	
4854517					307 ✓	
4854494					301 ./	
4854488					201.1	
4854972					204.1	
4854500					206 ✓	
4854943					210 ✓	
4914SJ1					Staff Lounge 507 ✓	Above Sink
4854980					Laundry Room ✓	Ledge by Ice Machine
4854497					of J Tbf	C/,s5,,,... <,b;n,d-
485497					111 ✓	
4854483					!Of/	
4854498	✓				1671	

Detector Installed by: jcc-t. (j. u.e..

Detector Removed by: 51e &v. e

Logbook Completed by: 9-Ctd G1 <.e

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Alpha Track Detector Log

(Return original to IEA with sample) Page 3 of 3

School/Organization: J. J. J. da Pi.bl.c Scbaof

Telephone: (<951>) X9 1-5e.00

Address: _____

City: _____

State: _____ Zip: _____

Contact Person: l. T. F. J. t.

Position: Please circle all that apply.

Superintendent Principal Ings&GroundsSu

ERKCoordinator Asbes _____

Other. _____

Date Package Shipped:

IEA Project#:

an 10186

(U.S. Mail, Fed. Express, UPS, Other)

Carrier Fed Ex

Package Shipped From:

IEA labar111nUse DDI

Date of Package Delivery:

Condition of Package on Receipt

Signature of Package Recipient:

Detector Number	Installation Date	Removal Date	Sampling Location			Notes Potential influencing factors (i.e. construction, maintenance)
			Building	CAB #	Room & Position in Room	
WS54902	2/17/12	11/5/12	Jordan Middle School	102	✓ tec , , e	
10.Jn...t.				1 001"1	Office /	To f al" t' a / 13oyes.
4954510						

Detector Installed by: SJ fl 61...1/

Detector Removed by: f:M /4u2fc.c

Logbook Completed by: 9fv< &. '·<

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Alpha Track Detector Log

(Return original to IEA with sample) Page 1

School/Organization: J.O Cd<?::', p.,,bI c Schools
 Telephone: f1'.5!)"5'l/f;l C:..oo
 Address: _____
 City: _____
 State: _____ Zip: _____

Contact Person: ...nb1C?>"::!l=11e6:d!!'j= - .1-, c "X7...fje,l

Position: Please circle all that apply. -----

Superintendent Principal Buildings & Grounds Supervisor
 ERK Coordinator Asbestos Program Manager
 Other: _____

Date Package Shipped:	IEA Project #:
<u>11-6-12</u>	<u>201210086</u>
Carrier	(U.S. Mail, Fed. Express, UPS, Other)
<u>FedEx</u>	
Package Shipped From:	

FarIEAllbor111rvusa Only

Date of Package Delivery:

Condition of Package Received:

Signature of Package Recipient:

						Niles
						Potential influencing factors (i.e. construction, maintenance), etc.
01t1c11r	IIISI8II1U1n,	11111101		Wm11111,cmii11;c	ii.1,	
--1laaiiOr i	DIIi	<1111 <		"isit, n ^o 111R111f		
I-5449D	J./17/t">)//rit J	1-Y-,,r J-	Ele''' -Pahl.I-'	7	j
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J C:'IL/(;j					0 0	j
I-9!;Lf{,q					'J I	
"54C::J.3					9.3	J
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IMrl./C-1Ji					J.C.	J
/J1,} II/7CI					'15	j
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4f51./171					'3I	/
4'95 l/c.Ti					29	/
l./ 545tfl					37	-
ugsl./515					lu, I	
L/SSL/51	/		/		1./1	I
Detector Installed by:	<u>C.hi-e.</u>	<u>.....</u>		<u>C.,f.V/</u>	<u>C.,f.e</u>	yd- J
Logbook Completed by:	<u>S-IO,</u>	<u>.../ r;,{</u>				

Detector Installed by: C.hi-e. / Detector Removed by: C.,f.V/ / C.,f.e

Logbook Completed by: S-IO, / .../ r;,{

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!IA.Inc.

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 Brooklyn Park, MN 55445
 163-315-1900
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Alpha Track Detector log

(Return original to IEA with sample) Page 2 of 3

School/Organization: JOCDO P"/;,1... & /..oals

Telephone: & >.:1)"J-J91 .1 ?co

Address: _____

City: _____

State: _____ Zip: _____

Contact Person: FIM 1&j - M E-sd,::

Position: Please circle all that apply: ..

Superintendent Principal Building If. Grounds Supervisor

ERK Coordinator Asbestos Program Manager

Other: _____

Date Package Shipped:

IEA Project #:

11-6-0 201210086

(U.S. Mail, Fed. Express, UPS, Other)

Carrier:

Package Shipped From:

J1 TrEAllb1ratIn, US18DIV

Date of Package Delivery: ..

Condition of Package On Receipt

Signature of Package Recipient: _____

Hazardous Materials Log						Notes
D11tijtr Nlliief'..	1nsw1au111 ... Dlltl,.. "	"::,11, ",r,;::,tf,, }t,t, ,1jlf t; f, [();,1 ..") 1/\ } ; T\ \ T# .. 111nm..::,;	el	c:\ >>		Potential Influencing factors (I.e. construction, maintenance)
i54C2	'//7//J..	\/(111.	r,.)^''' r/PM"•+O,r Y		Y'-1 j	
U C:4'itn	" -	I			56 J	
4f:K{L//77					l.f ./	
1./c t;'-IC:VI					Lit; 'I	
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L/x'54!iD5	\ I	' /	,		·75J	

Detector Installed by: 9etH fuua(Detector Removed by: .5J.....n..".e-&=-"-2f-

Logbook Completed by: 51:ew Gu 2f

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Alpha Track Detector Lou

(Return original to IEA with sample) Page 3 of 3.

School/Organization: 0. LLloJld. >0--JHw. /... /... . Z., ... l' "mmon" i., s

Telephone: A51--l;92... r\$"-2,""0" c. 1

Address: _____

City: _____

State: _____, Zip: _____

Contact Person: T" ;:: :t/ t 1 'M R'x k

Position: Please circle all that apply. -----

Superintendent Principal Buildings & Grounds Supervisor

ERK Coordinator Asbestos Program manager

other: _____

III. IEA Laboratory Use Only	
Date or Package Delivery: _____	
Condition of Package on Receipt: _____	
Signature of Packag. & Entert	

Detector Number	Installation Date	Removal Date	Sampling Location			Notes Potential influencing factors (i.e. construction, maintenance)
			Building	CAD #	Room & Position in Room	
IA ...,,	7-17/17/11	11/11/11	Jordan	f/eNle/l+W t	77	
4854460					79 ✓	
4854459					811 j	
4854446					3 ,j	
4854485					85 f	
4854465					57 ✓	

Detector installed by: Vr 1-i: lef.(1

Detector Removed by: s..-i. l."-e"-.&"-v"-J"-.|

Logbook Completed by: Yee e Gi r 5<

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IEA, Inc.
9201 West Broadway, #800
Brooklyn Park, MN 551145

163-315-1900

TollFree 1-800-233-9513