



Report Number  
05-166-2198

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
www.midwestlabs.com

**REPORT OF ANALYSIS**

For: ( 3973 ) LAYNE WESTERN  
(402)359-2042

Mail to:

LAYNE WESTERN  
4601 NORTH 252 STREET  
VALLEY NE 68064-

Date Reported: 06/15/05  
Date Received: 06/14/05  
Date Sampled: 06/14/05

BIG SANDY

Lab number: 1084611    Sample ID: WELL 1

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
Total coliforms	n.d.	cfu/100mL	1	SM9222B	nfo-06/15	kej-06/15

Notes:

n.d. - Not Detected.  
Report faxed upon completion.

Respectfully Submitted

Heather Ramig/Sue Ann Seitz/Rob Ferris  
Client Services

# Midwest Laboratories, Inc.

Report Number  
05-166-2194

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## REPORT OF ANALYSIS

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4601 NORTH 252 STREET  
VALLEY NE 68064-

Date Reported: 06/15/05  
Date Received: 06/13/05  
Date Sampled: 06/13/05

BIG SANDY

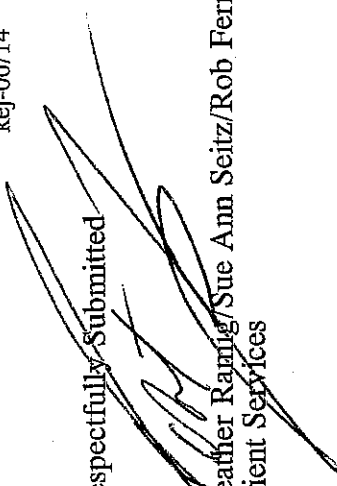
Lab number: 1084320      Sample ID: NEW WELL NORTH

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
Total coliforms	n.d.	cfu/100mL	1	SM9222B	kej-06/14	kej-06/15

Notes:

n.d. - Not Detected.  
Report faxed upon completion.

Respectfully Submitted

  
Heather Ramig/Sue Ann Seitz/Rob Ferris  
Client Services

**Nebraska Health and Human Services  
Regulation and Licensure - Laboratory Services**

3701 South 14th Street  
Lincoln, NE 68502  
(402) 471-2122  
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LAYNE WESTERN

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4601 NORTH 252ND STREET  
VALLEY, NE 68064

Laboratory Report Printed on: MAR-17-05

<b>Laboratory Analysis For: INORGANICS-KIT A</b>		Page: 1 of 1
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-1		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 25-Jan-2005
Location: <del>G-428000</del> WELL 20041P	<i>Well #1 (North)</i>	

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Alkalinity, Total	184.		20	mg/l	2320B		02/01/05	SH
Chloride	12.5		1	mg/L	4500CL-E		02/17/05	km
CYANIDE	<RL		.05	mg/l	4500CN-F		01/29/05	KC
Chlorate+Nitrite (As N)	<RL		.05	mg/l	353.2		01/26/05	km
Fluoride	0.35		.2	mg/l	4500F-C		01/26/05	JN
Hardness, Total	210.		4	mg/l	2340C		02/01/05	SH
Nitrite As N	<RL		.02	mg/l	EPA 353.2		01/27/05	km
pH	7.14			pH	150.1		01/27/05	SH
TOTAL COLIFORM	Total coliform absent - meets bacteriological standards		0	cfu/100ml	9223B-PA		01/26/05	JN
E. COLI	E. coli absent		0	cfu/100ml	9223B-PA		01/26/05	JN
SULFATE	85.		10	mg/l	EPA 375.4		02/07/05	JN
Solids, Total Dissolved (Tds)	340.		10	mg/l	160.1		01/31/05	SH

**Report Remarks:**

LOT 258 BZB

See reverse side of report for description of acronyms and data qualifiers  
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Laboratory Report Printed on: MAR-17-05

<b>Laboratory Analysis For: METALS/MINERALS-KIT A</b>		Page: 1 of 2
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-2		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 25-Jan-2005
Location: <del>G-428090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
SILVER	<RL		1	ug/l	200.8		02/09/05	CC
ARSENIC	5.21		2	ug/l	200.8		02/09/05	CC
BARIUM	130.		10	ug/l	200.8		02/09/05	CC
STRONTIUM	<RL		1	ug/l	200.8		02/09/05	CC
CALCIUM	63.2		.15	mg/l	215.1		02/10/05	CD
CADMIUM	<RL		1	ug/l	200.8		02/09/05	CC
CHROMIUM	3.16		1	ug/l	200.8		02/09/05	CC
COPPER	<RL		5	ug/l	200.8		02/09/05	CC
IRON	<RL		50	ug/l	SM3111B		02/09/05	CD
MERCURY	<RL		1	ug/l	EPA 245.1	02/07/05	02/08/05	CD
MANGANESE	282.		1	ug/l	200.8		02/09/05	CC
SODIUM	30.4		10	mg/l	SM3111B		02/09/05	CD
NICKEL	3.05		1	ug/l	200.8		02/09/05	CC
LEAD	<RL		1	ug/l	200.8		02/09/05	CC
ANTIMONY	<RL		1	ug/l	200.8		02/09/05	CC
SELENIUM	<RL		5	ug/l	200.8		02/09/05	CC

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Laboratory Analysis For: METALS/MINERALS-KIT A

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Page: 2 of 2

Laboratory Number: P27169-2

Date Collected: 25-Jan-2005 10:45 AM

Sampled By: DIANE BENGTON

Date Received: 25-Jan-2005

Location: ~~G-128090~~ WELL 20041P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
THALLIUM	<RL		1	ug/l	200.8		02/09/05	CC
URANIUM	6.99		1	ug/l	200.8		02/09/05	CC

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 1 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-3		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 25-Jan-2005
Location: <del>G-428090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
1,2-DIBROMOETHANE	<RL		.01	ug/l	504.1	02/01/05	02/01/05	MB
1,2-Dibromo-3-Chloropropane	<RL		.01	ug/l	504.1	02/01/05	02/01/05	MB
PCB-1016	<RL		.1	ug/l	505	02/03/05	02/03/05	MB
B-1221	<RL		2	ug/l	505	02/03/05	02/03/05	MB
PCB-1232	<RL		.5	ug/l	505	02/03/05	02/03/05	MB
PCB-1242	<RL		.3	ug/l	505	02/03/05	02/03/05	MB
PCB-1248	<RL		.2	ug/l	505	02/03/05	02/03/05	MB
PCB-1254	<RL		.1	ug/l	505	02/03/05	02/03/05	MB
PCB-1260	<RL		.2	ug/l	505	02/03/05	02/03/05	MB
TOXAPHENE	<RL		1	ug/l	505	02/03/05	02/03/05	MB
2,4-D	<RL		2	ug/l	515.3	02/03/05	02/03/05	MB
DALAPON	<RL		2	ug/l	515.3	02/03/05	02/03/05	MB
DICAMBA	<RL		1	ug/l	515.3	02/03/05	02/03/05	MB
DINOSEB	<RL		2	ug/l	515.3	02/03/05	02/03/05	MB
PENTACHLOROPHENOL	<RL		.2	ug/l	515.3	02/03/05	02/03/05	MB
PICLORAM	<RL		2.5	ug/l	515.3	02/03/05	02/03/05	MB

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 2 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b>	P27169-3	<b>Date Collected:</b> 25-Jan-2005 10:45 AM
<b>Sampled By:</b>	DIANE BENGTON	<b>Date Received:</b> 25-Jan-2005
<b>Location:</b>	<del>G-128090</del> WELL 20041P	

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
2,4,5-TP (Silvex)	<RL		.6	ug/l	515.3	02/03/05	02/03/05	MB
Dichlorodifluoromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Chloromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Phenyl Chloride	<RL		.4	ug/l	524.2	01/27/05	01/27/05	AL
Bromomethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Chloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Trichlorofluoromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,1-Dichloroethene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Dichloromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Trans-1,2-dichloroethene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,1-dichloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
2,2-dichloropropane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Cis-1,2-dichloroethene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Bromochloromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Chloroform	6.6		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,1,1-trichloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL

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**Laboratory Analysis For: ORGANICS-KIT A**

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Page: 3 of 8

Laboratory Number: P27169-3

Date Collected: 25-Jan-2005 10:45 AM

Sampled By: DIANE BENGTON

Date Received: 25-Jan-2005

Location: ~~G-428090~~ WELL 20041P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Carbon tetrachloride	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,1-Dichloropropene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Benzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2-dichloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Trichloroethene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2-dichloropropane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Bromodichloromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Dibromomethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Cis-1,3-dichloropropene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Toluene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,1,2-trichloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Tetrachloroethene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,3-Dichloropropane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Dibromochloromethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2-Dibromoethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Chlorobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 4 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b> P27169-3		<b>Date Collected:</b> 25-Jan-2005 10:45 AM
<b>Sampled By:</b> DIANE BENGTON		<b>Date Received:</b> 25-Jan-2005
<b>Location:</b> <del>G-128090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
1,1,1,2-tetrachloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Ethylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
M,P-Xylenes	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
o-xylene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Styrene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Isopropylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Bromoform	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,1,2,2-tetrachloroethane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Bromobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2,3-trichloropropane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
N-propylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
2-Chlorotoluene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,3,5-trimethylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
4-chlorotoluene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Terf-butylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2,4-trimethylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 5 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-3		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 25-Jan-2005
Location: <del>G-428090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Sec-butylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
P-isopropyltoluene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,3-Dichlorobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,4-Dichlorobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2-Dichlorobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
N-butylbenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2-Dibromo-3-Chloropropane	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2,4-trichlorobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Hexachlorobutadiene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Naphthalene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
1,2,3-trichlorobenzene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Trans-1,3-dichloropropene	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Methyl-T-Butyl-Ether	<RL		.5	ug/l	524.2	01/27/05	01/27/05	AL
Hexachlorocyclopentadiene	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Butylate	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Propachlor	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 6 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b> P27169-3		<b>Date Collected:</b> 25-Jan-2005 10:45 AM
<b>Sampled By:</b> DIANE BENGTON		<b>Date Received:</b> 25-Jan-2005
<b>Location:</b> <del>G-428090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Trifluralin	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Hexachlorobenzene	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Simazine	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
azine	<RL		.08	ug/l	525.2	02/08/05	02/10/05	TJ
Lindane	<RL		.04	ug/l	525.2	02/08/05	02/10/05	TJ
Fonofos	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Metribuzin	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Alachlor	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Heptachlor	<RL		.08	ug/l	525.2	02/08/05	02/10/05	TJ
Metolachlor	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Chlorpyrifos	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Cyanazine	<RL		.15	ug/l	525.2	02/08/05	02/10/05	TJ
Aldrin	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Heptachlor epoxide	<RL		.04	ug/l	525.2	02/08/05	02/10/05	TJ
Butachlor	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Dieldrin	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 7 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-3		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 25-Jan-2005
Location: <del>428090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Endrin	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Di(2-Ethylhexyl)Adipate	<RL		.5	ug/l	525.2	02/08/05	02/10/05	TJ
Methoxychlor	<RL		.1	ug/l	525.2	02/08/05	02/10/05	TJ
Di(2-Ethylhexyl)Phthalate	<RL		2	ug/l	525.2	02/08/05	02/10/05	TJ
Benzo[a]pyrene	<RL		.06	ug/l	525.2	02/08/05	02/10/05	TJ
Chlordane	<RL		.3	ug/l	525.2	02/08/05	02/10/05	TJ
ALDICARB	<RL		.5	ug/l	531.1	01/26/05	01/27/05	JB
ALDICARB SULFONE	<RL		.5	ug/l	531.1	01/26/05	01/27/05	JB
ALDICARB SULFOXIDE	<RL		.4	ug/l	531.1	01/26/05	01/27/05	JB
CARBARYL	<RL		.5	ug/l	531.1	01/26/05	01/27/05	JB
CARBOFURAN	<RL		.6	ug/l	531.1	01/26/05	01/27/05	JB
3-HYDROXYCARBOFURAN	<RL		.6	ug/l	531.1	01/26/05	01/27/05	JB
METHOMYL	<RL		.4	ug/l	531.1	01/26/05	01/27/05	JB
OXAMYL	<RL		.4	ug/l	531.1	01/26/05	01/27/05	JB
GLYPHOSATE	<RL		6	ug/l	547	02/15/05	02/16/05	JB
DIQUAT	<RL		.6	ug/l	549.2	01/25/05	01/31/05	JB

See reverse side of report for description of acronyms and data qualifiers  
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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 8 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b>	P27169-3	<b>Date Collected:</b> 25-Jan-2005 10:45 AM
<b>Sampled By:</b>	DIANE BENGTON	<b>Date Received:</b> 25-Jan-2005
<b>Location:</b>	<del>G-428090</del> WELL 20041P	

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
PARAQUAT	<RL		1	ug/l	549.2	01/25/05	01/31/05	JB

Report Remarks:

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<b>Laboratory Analysis For: RADCHEM-KIT A</b>		Page: 1 of 1
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-4		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 25-Jan-2005
Location: <del>G-128090</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
RADON	717.0		15	PIC/L	SM7500-RN	01/26/05	01/26/05	JB
Gross Alpha Particle Activity, Total	14.2		1	PIC/L	900.0		02/01/05	ENERG
Radium 226	1.00		.2	PIC/L	903.0		02/01/05	ENERG
dium 228	0.000		1	PIC/L	904.0		02/01/05	ENERG
Uranium, Combined	4.90		.2	PIC/L	SM7500-UC		02/01/05	ENERG

**Report Remarks:**

TESTED AT ENERGY LABS

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<b>Laboratory Analysis For: ASBESTOS-KIT B</b>		Page: 1 of 1
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27169-5		Date Collected: 25-Jan-2005 10:45 AM
Sampled By: DIANE BENGTON		Date Received: 26-Jan-2005
Location: <del>G-128000</del> WELL 20041P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
ASBESTOS	<RL		.18	mfl	100.2		01/28/05	ENERG

**Report Remarks:**

Asbestos analysis done at Data Chem Labs, Cincinnati, OH

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**Laboratory Analysis For: ENDOTHALL & DIOXIN-KIT C**

**Sample Comments:** NEW WELL FOR BIG SANDY LAKE

Page: 1 of 1

Laboratory Number: P27169-6

Date Collected: 25-Jan-2005 10:45 AM

Sampled By: DIANE BENGTON

Date Received: 26-Jan-2005

Location: ~~G-428000~~ WELL 20041P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
DIOXIN	<RL		.000005	ug/l	1613 B		01/30/05	ENERG
ENDOTHALL	<RL		8	ug/l	548.1		02/01/05	ENERG

**Report Remarks:**

Dioxin analysis done at Pace Labs, Minneapolis, MN  
Endothall analysis done at Energy Labs, Casper, WY

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Laboratory Analysis For: TOTAL ORGANIC CARBON-KIT D

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Page: 1 of 1

Laboratory Number: P27169-7

Date Collected: 25-Jan-2005 10:45 AM

Sampled By: DIANE BENGTON

Date Received: 25-Jan-2005

Location: ~~G-128090~~ WELL 20041P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Total Organic Carbon	1.58		.5	mg/l	SM5310C		01/26/05	EHL

Report Remarks:

TOC analysis done at Environmental Health Labs, South Bend, IN

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Report Number  
05-105-2113

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**REPORT OF ANALYSIS**

For: ( 3973 ) LAYNE WESTERN  
(402)359-2042

Mail to:

LAYNE WESTERN  
4601 NORTH 252 STREET  
VALLEY NE 68064-

Date Reported: 04/15/05  
Date Received: 04/14/05  
Date Sampled: 04/14/05

BIG SANDY

Lab number: 1067810    Sample ID: WELL 2 /South

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
Total coliforms	n.d.	cfu/100mL	1	SM9222B	arj-04/15	kej-04/15

Notes:

n.d. - Not Detected.

\*TIME OF COLIFORM ANALYSIS 4/14/05 16:20

Respectfully Submitted

Heather Rattig/Sue Ann Seitz/Rob Ferris  
Client Services

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REPORT OF ANALYSIS  
For: ( 3973) LAYNE WESTERN  
(402)359-2042

Report Number  
05-104-2224

Mail to:

LAYNE WESTERN  
4601 NORTH 252 STREET  
VALLEY NE 68064

Date Reported: 04/14/05  
Date Received: 04/13/05  
Date Sampled: 04/13/05

BIG SANDY

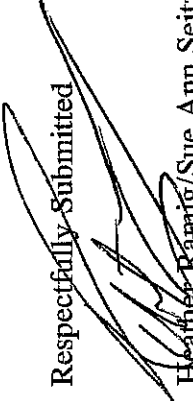
Lab number: 1067343 Sample ID: S. WELL 4-13-05

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
Total coliforms	n.d.	cfu/100mL	1	SM9222B	bjl-04/14	arj-04/14

Notes:

n.d. - Not Detected.  
\*Coliforms were ran on 04-13-05 at 1600

Respectfully Submitted

  
Heather Raming/Sue Ann Seitz/Rob Ferris  
Client Services

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Laboratory Report Printed on: MAR-07-05

**Laboratory Analysis For: INORGANICS-KIT A**

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Page: 1 of 1

Laboratory Number: P27168-1

Date Collected: 19-Jan-2005 12:00 PM

Sampled By: DIANE BENGTON

Date Received: 20-Jan-2005

Location: WELL 20042P; Well #2 (South)

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Alkalinity, Total	156.		20	mg/l	2320B		01/24/05	SH
Chloride	11.1		1	mg/L	4500CL-E		01/21/05	km
CYANIDE	<RL		.05	mg/l	4500CN-F		01/29/05	KC
ate+Nitrite (As N)	<RL		.05	mg/l	353.2		01/20/05	km
Fluoride	0.36		.2	mg/l	4500F-C		01/26/05	JN
Hardness, Total	200.		4	mg/l	2340C		01/24/05	SH
Nitrite As N	<RL		.02	mg/l	EPA 353.2		01/19/05	km
pH	7.20			pH	150.1		01/19/05	SH
TOTAL COLIFORM	Total coliform present - does not meet bacteriological standards		0	cfu/100ml	9223B-PA		01/20/05	TW
E. COLI	E. coli absent		0	cfu/100ml	9223B-PA		01/20/05	TW
SULFATE	97.		10	mg/l	EPA 375.4		02/07/05	JN
Solids, Total Dissolved (Tds)	339.		10	mg/l	160.1		01/21/05	SH

Report Remarks:

LOT 258 BZB

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**Laboratory Analysis For: METALS/MINERALS-KIT A**

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Page: 1 of 2

Laboratory Number: P27168-2

Date Collected: 19-Jan-2005 12:00 PM

Sampled By: DIANE BENGTON

Date Received: 19-Jan-2005

Location: WELL 20042P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
SILVER	<RL		1	ug/l	200.8		02/09/05	CC
ARSENIC	4.10		2	ug/l	200.8		02/09/05	CC
BARIUM	114.		10	ug/l	200.8		02/09/05	CC
BERYLLIUM	<RL		1	ug/l	200.8		02/09/05	CC
CALCIUM	62.1		.15	mg/l	215.1		01/25/05	CD/CC
CADMIUM	<RL		1	ug/l	200.8		02/09/05	CC
CHROMIUM	1.39		1	ug/l	200.8		02/09/05	CC
COPPER	<RL		5	ug/l	200.8		02/09/05	CC
IRON	46.4		50	ug/l	SM3111B		01/25/05	CD/CC
MERCURY	<RL		1	ug/l	EPA 245.1	02/07/05	02/08/05	CD
MANGANESE	316.		1	ug/l	200.8		02/09/05	CC
SODIUM	29.8		10	mg/l	SM3111B		01/26/05	CD/CC
NICKEL	3.03		1	ug/l	200.8		02/09/05	CC
LEAD	1.59		1	ug/l	200.8		02/09/05	CC
ANTIMONY	<RL		1	ug/l	200.8		02/09/05	CC
SELENIUM	<RL		5	ug/l	200.8		02/09/05	CC

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<b>Laboratory Analysis For: METALS/MINERALS-KIT A</b>		Page: 2 of 2
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b>	P27168-2	<b>Date Collected:</b> 19-Jan-2005 12:00 PM
<b>Sampled By:</b>	DIANE BENGTON	<b>Date Received:</b> 19-Jan-2005
<b>Location:</b>	WELL 20042P	

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
THALLIUM	<RL		1	ug/l	200.8		02/09/05	CC
URANIUM	4.36		1	ug/l	200.8		02/09/05	CC

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 1 of 8
<b>Sample Comments:</b>	<b>NEW WELL FOR BIG SANDY LAKE</b>	
Laboratory Number: <b>P27168-3</b>		Date Collected: <b>19-Jan-2005 12:00 PM</b>
Sampled By: <b>DIANE BENGTON</b>		Date Received: <b>19-Jan-2005</b>
Location: <b>WELL 20042P</b>		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
1,2-DIBROMOETHANE	<RL		.01	ug/l	504.1	01/20/05	01/20/05	MB
1,2-Dibromo-3-Chloropropane	<RL		.01	ug/l	504.1	01/20/05	01/20/05	MB
PCB-1016	<RL		.1	ug/l	505	01/24/05	01/24/05	MB
PCB-1221	<RL		2	ug/l	505	01/24/05	01/24/05	MB
PCB-1232	<RL		.5	ug/l	505	01/24/05	01/24/05	MB
PCB-1242	<RL		.3	ug/l	505	01/24/05	01/24/05	MB
PCB-1248	<RL		.2	ug/l	505	01/24/05	01/24/05	MB
PCB-1254	<RL		.1	ug/l	505	01/24/05	01/24/05	MB
PCB-1260	<RL		.2	ug/l	505	01/24/05	01/24/05	MB
TOXAPHENE	<RL		1	ug/l	505	01/24/05	01/24/05	MB
2,4-D	<RL		2	ug/l	515.3	01/26/05	01/26/05	MB
DALAPON	<RL		2	ug/l	515.3	01/26/05	01/26/05	MB
DICAMBA	<RL		1	ug/l	515.3	01/26/05	01/26/05	MB
DINOSEB	<RL		2	ug/l	515.3	01/26/05	01/26/05	MB
PENTACHLOROPHENOL	<RL		.2	ug/l	515.3	01/26/05	01/26/05	MB
PICLORAM	<RL		2.5	ug/l	515.3	01/26/05	01/26/05	MB

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**Laboratory Analysis For: ORGANICS-KIT A**

**Sample Comments:** NEW WELL FOR BIG SANDY LAKE

Page: 2 of 8

Laboratory Number: P27168-3

Date Collected: 19-Jan-2005 12:00 PM

Sampled By: DIANE BENGTON

Date Received: 19-Jan-2005

Location: WELL 20042P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
2,4,5-TP (Silvex)	<RL		.5	ug/l	515.3	01/26/05	01/26/05	MB
Dichlorodifluoromethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Chloromethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
yl Chloride	<RL		.4	ug/l	524.2	01/20/05	01/20/05	AL
Bromomethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Chloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Trichlorofluoromethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,1-Dichloroethene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Dichlormethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Trans-1,2-dichloroethene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,1-dichloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
2,2-dichloropropane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Cis-1,2-dichloroethene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Bromochloromethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Chloroform	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,1,1-trichloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 3 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b>	P27168-3	<b>Date Collected:</b> 19-Jan-2005 12:00 PM
<b>Sampled By:</b>	DIANE BENGTON	<b>Date Received:</b> 19-Jan-2005
<b>Location:</b>	WELL 20042P	

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Carbon tetrachloride	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,1-Dichloropropene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Benzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2-dichloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Trichloroethene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2-dichloropropane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Bromodichloromethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Dibromomethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Cis-1,3-dichloropropene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Toluene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,1,2-trichloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Tetrachloroethene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,3-Dichloropropane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Dibromochloromethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2-Dibromoethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Chlorobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL

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**Laboratory Analysis For: ORGANICS-KIT A**

**Sample Comments: NEW WELL FOR BIG SANDY LAKE**

Page: 4 of 8

Laboratory Number: P27168-3

Date Collected: 19-Jan-2005 12:00 PM

Sampled By: DIANE BENGTON

Date Received: 19-Jan-2005

Location: WELL 20042P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
1,1,1,2-tetrachloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Ethylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
M,P-Xylenes	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
o-xylene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Styrene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Isopropylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Bromoform	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,1,1,2-tetrachloroethane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Bromobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2,3-trichloropropane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
N-propylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
2-Chlorotoluene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,3,5-trimethylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
4-chlorotoluene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Tert-butylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2,4-trimethylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL

See reverse side of report for description of acronyms and data qualifiers  
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Laboratory Report Printed on: MAR-07-05

**Laboratory Analysis For: ORGANICS-KIT A**

**Sample Comments:** NEW WELL FOR BIG SANDY LAKE

Page: 5 of 8

Laboratory Number: P27168-3

Date Collected: 19-Jan-2005 12:00 PM

Sampled By: DIANE BENGTON

Date Received: 19-Jan-2005

Location: WELL 20042P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Sec-butylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
P-isopropyltoluene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,3-Dichlorobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,4-Dichlorobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2-Dichlorobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
N-butylbenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2-Dibromo-3-Chloropropane	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2,4-trichlorobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Hexachlorobutadiene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Naphthalene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
1,2,3-trichlorobenzene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Trans-1,3-dichloropropene	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Methyl-T-Butyl-Ether	<RL		.5	ug/l	524.2	01/20/05	01/20/05	AL
Hexachlorocyclopentadiene	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Butylate	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Propachlor	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 6 of 8
<b>Sample Comments:</b>	<b>NEW WELL FOR BIG SANDY LAKE</b>	
<b>Laboratory Number:</b> P27168-3		<b>Date Collected:</b> 19-Jan-2005 12:00 PM
<b>Sampled By:</b> DIANE BENGTON		<b>Date Received:</b> 19-Jan-2005
<b>Location:</b> WELL 20042P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Trifluralin	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Hexachlorobenzene	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Simazine	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
iazine	<RL		.08	ug/l	525.2	01/21/05	01/28/05	TJ
Lindane	<RL		.04	ug/l	525.2	01/21/05	01/28/05	TJ
Fonofos	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Metribuzin	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Alachlor	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Heptachlor	<RL		.08	ug/l	525.2	01/21/05	01/28/05	TJ
Metolachlor	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Chlorpyrifos	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Cyanazine	<RL		.15	ug/l	525.2	01/21/05	01/28/05	TJ
Aldrin	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Heptachlor epoxide	<RL		.04	ug/l	525.2	01/21/05	01/28/05	TJ
Butachlor	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Dieldrin	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ

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<b>Laboratory Analysis For: ORGANICS-KIT A</b>		Page: 7 of 8
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27168-3		Date Collected: 19-Jan-2005 12:00 PM
Sampled By: DIANE BENGTSON		Date Received: 19-Jan-2005
Location: WELL 20042P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Endrin	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
Di(2-Ethylhexyl)Adipate	<RL		.5	ug/l	525.2	01/21/05	01/28/05	TJ
Methoxychlor	<RL		.1	ug/l	525.2	01/21/05	01/28/05	TJ
'2-Ethylhexyl)Phthalate	<RL		.2	ug/l	525.2	01/21/05	01/28/05	TJ
Benzo[a]pyrene	<RL		.06	ug/l	525.2	01/21/05	01/28/05	TJ
Chlordane	<RL		.3	ug/l	525.2	01/21/05	01/28/05	TJ
ALDICARB	<RL		.5	ug/l	531.1	01/19/05	01/21/05	JB
ALDICARB SULFONE	<RL		.5	ug/l	531.1	01/19/05	01/21/05	JB
ALDICARB SULFOXIDE	<RL		.4	ug/l	531.1	01/19/05	01/21/05	JB
CARBARYL	<RL		.5	ug/l	531.1	01/19/05	01/21/05	JB
CARBOFURAN	<RL		.6	ug/l	531.1	01/19/05	01/21/05	JB
3-HYDROXYCARBOFURAN	<RL		.6	ug/l	531.1	01/19/05	01/21/05	JB
METHOMYL	<RL		.4	ug/l	531.1	01/19/05	01/21/05	JB
OXAMYL	<RL		.4	ug/l	531.1	01/19/05	01/21/05	JB
GLYPHOSATE	<RL		6	ug/l	547	02/15/05	02/16/05	JB
DIQUAT	<RL		.6	ug/l	549.2	01/24/05	01/31/05	JB

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Laboratory Analysis For: ORGANICS-KIT A

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Page: 8 of 8

Laboratory Number: P27168-3

Date Collected: 19-Jan-2005 12:00 PM

Sampled By: DIANE BENGTON

Date Received: 19-Jan-2005

Location: WELL 20042P

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
PARAQUAT	<RL		1	ug/l	549.2	01/24/05	01/31/05	JB

Report Remarks:

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<b>Laboratory Analysis For: RADCHEM-KIT A</b>		Page: 1 of 1
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
<b>Laboratory Number:</b>	P27168-4	<b>Date Collected:</b> 19-Jan-2005 12:00 PM
<b>Sampled By:</b>	DIANE BENGTON	<b>Date Received:</b> 19-Jan-2005
<b>Location:</b>	WELL 20042P	

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
RADON	880.0		15	PIC/L	SM7500-RN	01/19/05	01/19/05	JB
Gross Alpha Particle Activity, Total	7.60		1	PIC/L	900.0		02/06/05	ENERG
Radium 226	2.00		.2	PIC/L	903.0		02/06/05	ENERG
Polonium 228	0.000		1	PIC/L	904.0		02/06/05	ENERG
Uranium, Combined	2.40		.2	PIC/L	SM7500-UC		02/06/05	ENERG

**Report Remarks:**

TESTED AT ENERGY LABS

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Laboratory Report Printed on: **MAR-07-05**

**Laboratory Analysis For: ASBESTOS-KIT B**

**Sample Comments: NEW WELL FOR BIG SANDY LAKE**

Page: 1 of 1

Laboratory Number: **P27168-5**

Date Collected: **19-Jan-2005 11:35 AM**

Sampled By: **DIANE BENGTON**

Date Received: **19-Jan-2005**

Location: **WELL 20042P**

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
ASBESTOS	<RL		.18	mfl	100.2		01/25/05	ENERG

**Report Remarks:**

Asbestos analysis done at Data Chem Labs, Cincinnati, OH

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Laboratory Report Printed on: MAR-07-05

<b>Laboratory Analysis For: ENDOTHALL &amp; DIOXIN-KIT C</b>		Page: 1 of 1
<b>Sample Comments:</b>	NEW WELL FOR BIG SANDY LAKE	
Laboratory Number: P27168-6		Date Collected: 19-Jan-2005 11:40 AM
Sampled By: DIANE BENGTON		Date Received: 19-Jan-2005
Location: WELL 20042P		

Parameters	Test Results	Qualifier	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
DIOXIN	<RL		.000005	ug/l	1613 B		01/27/05	ENERG
ENDOTHALL	<RL		8	ug/l	548.1		01/25/05	ENERG

**Report Remarks:**

Dioxin analysis done at Pace Analytical Labs, Minneapolis, MN  
Endothall analysis done at Energy Labs, Casper, WY

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Laboratory Report Printed on: FEB-09-05

Laboratory Analysis for: TOTAL ORGANIC CARBON-KIT D

Sample Comments: NEW WELL FOR BIG SANDY LAKE

Laboratory Number: P27168-7

Date Collected: 19-Jan-2005 11:50 AM

Sampled By: DIANE BENGTON

Date Received: 19-Jan-2005

Location: WELL 20042P

Well ID: 20042P

Parameters	Test Results	Qual	Report Level	Units	Method	Prep Date	Analysis Date	Analyst
Total Organic Carbon	1.5		.5	mg/l	SM5310C		01/21/05	EHL

Note: see reverse side of report for description of acronyms and data qualifiers  
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