

# Illinois EPA/Indian Creek Landfill #2 Groundwater Results

10 May 2016

Parameters	Interwell	G17D			G13D					G03D			G05D		
		IEPA	ICLF2	RPD	IEPA 1°	IEPA Dupe	IEPA 1°/ Dupe RPD	ICLF2	RPD	IEPA	ICLF2	RPD	IEPA	ICLF2	RPD
Ammonia, dis. (mg/L)	8	4.09	4.6	-11.74%	1.4	1.4	0.00%	1.6	-13.33%	1.19	1.4	-16.22%	0.92	1	-8.33%
Arsenic, dis. (µg/L)	150	68.4	77	-11.83%	36.4	37.9	4.04%	44	-16.88%	68.8	77	-11.25%	27.7	28	-1.08%
Boron, dis. (µg/L)	410	194	230	-16.98%	195	192	1.55%	240	-21.45%	206	310	-40.31%	194	260	-29.07%
Cadmium, dis. (µg/L)	1	<3	<1	N/C	<3	<3	N/C	<1	N/C	<3	<1	N/C	<3	<1	N/C
Chloride, dis. (mg/L)	6.2	2.95	2.8	5.22%	2.8	2.82	0.71%	2.7	3.99%	1.97	1.8	9.02%	3.12	3	3.92%
Chromium, dis. (µg/L)	4	<5	<4	N/C	<5	<5	N/C	<4	N/C	<5	<4	N/C	<5	<4	N/C
Cyanide, tot. (mg/L)	0.005	<0.005	<0.005	N/C	<0.005	<0.005	N/C	<0.005	N/C	<0.005	<0.005	N/C	<0.005	<0.005	N/C
Lead, dis. (µg/L)	406.6	<5	<1	N/C	<5	<5	N/C	<1	N/C	<5	<1	N/C	<5	<1	N/C
Magnesium, dis. (mg/L)	59	38.7	39	-0.77%	40.9	40.7	0.49%	39	4.51%	38	37	2.67%	44.9	44	2.02%
Mercury, dis. (µg/L)	0.2	<0.06	<0.20	N/C	<0.06	<0.06	N/C	<0.20	N/C	<0.06	<b>0.26</b>	NC	<0.06	<b>0.29</b>	NC
Nitrate, dis. (mg/L)*	0.38	<0.1	<0.02	N/C	<0.1	<0.1	N/C	<0.02	N/C	<0.1	<0.02	N/C	<0.1	<0.02	N/C
pH	6.60-7.90	7.5	6.87	8.77%	7.6	7.5	1.32%	7.06	6.71%	7.4	7.06	4.70%	7.3	7.02	3.91%
Spec. Cond. (µmhos/cm)	1100	724	731	-0.96%	697	698	0.14%	716	-2.62%	702	706	-0.57%	917	977	-6.34%
Sulfate, dis. (mg/L)	16	<10	<1	N/C	<10	<10	N/C	<1	N/C	<10	<1	N/C	<b>85</b>	<b>90</b>	-5.71%
TDS (mg/L)	590	398	340	15.72%	366	376	2.70%	340	8.72%	414	360	13.95%	534	500	6.58%
Zinc, dis. (µg/L)	44	<25	<6	N/C	<25	<25	N/C	<6	N/C	<25	<6	N/C	<25	<6	N/C

Ave RPD, IEPA 1°/Dupe: 1.37%

## Illinois EPA/PDC Labs Comparison

total RPDs	33
Abs RPDs ≤10%	20
Abs RPDs ≤20%	29
Abs RPDs > 25%	2
RPDs >0	15
RPDs <0	18

N/C = Not Calculated

IEPA 1° = IEPA Primary Sample of That Well

Dupe = Field Duplicate of That Well

RPD = Relative Percent Difference

\* IEPA Result for Nitrate + Nitrite

<# = Below Indicated Reporting Limit

Bold Result = Exceeds AGQS/MAPC