

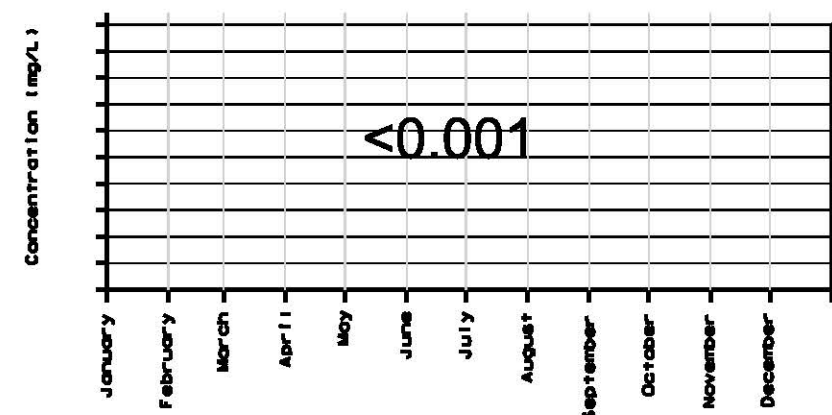
AP-111

AGWMR (4)

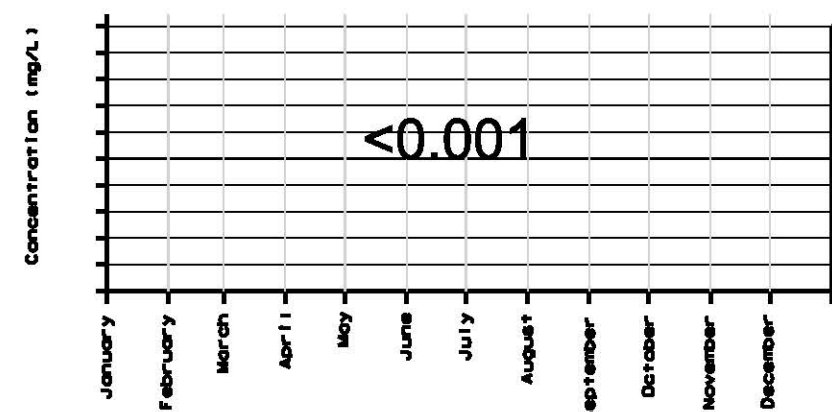
2014

Well ID: OW-13

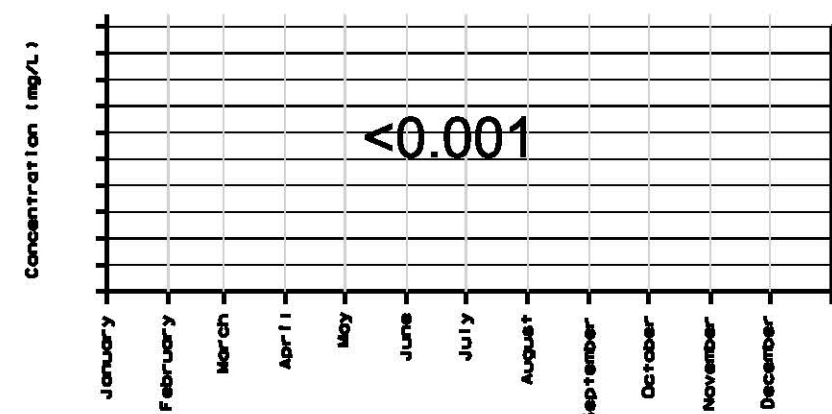
Year: 2014 Constituent: Benzene



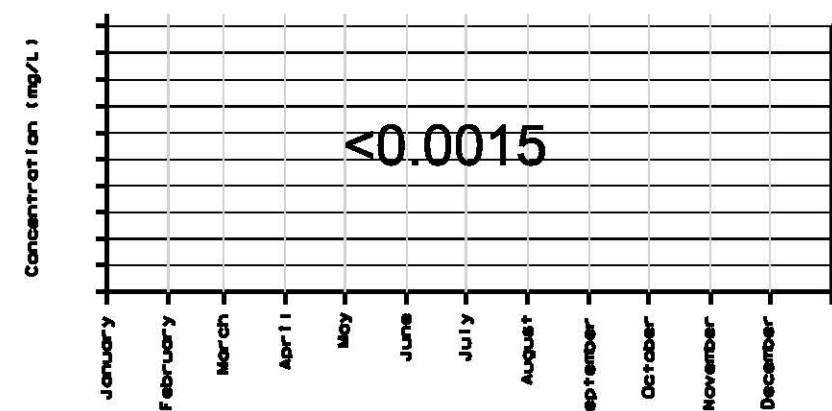
Year: 2014 Constituent: Toluene



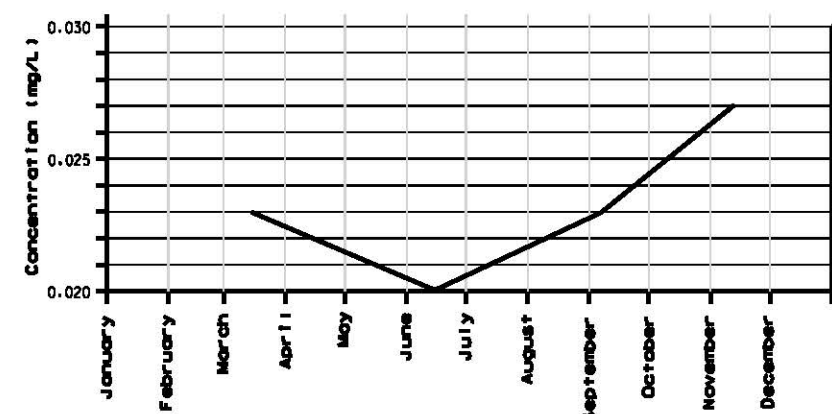
Year: 2014 Constituent: Ethyl Benzene



Year: 2014 Constituent: Total Xylenes

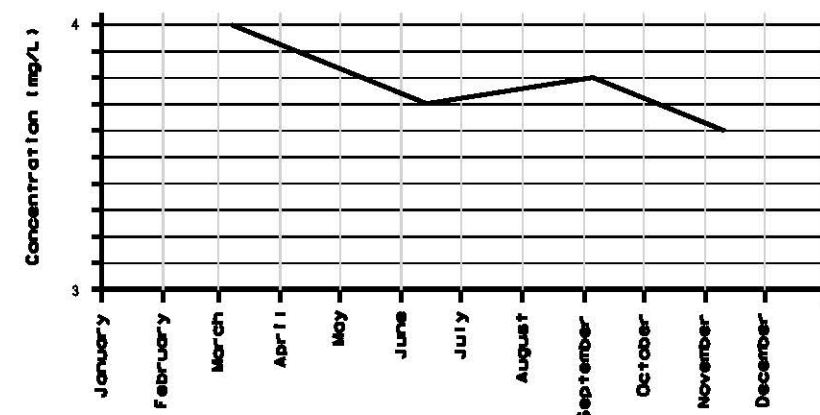


Year: 2014 Constituent: MTBE

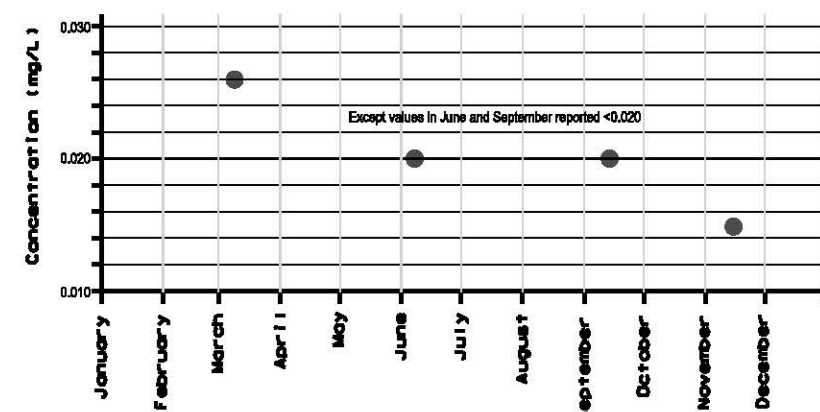


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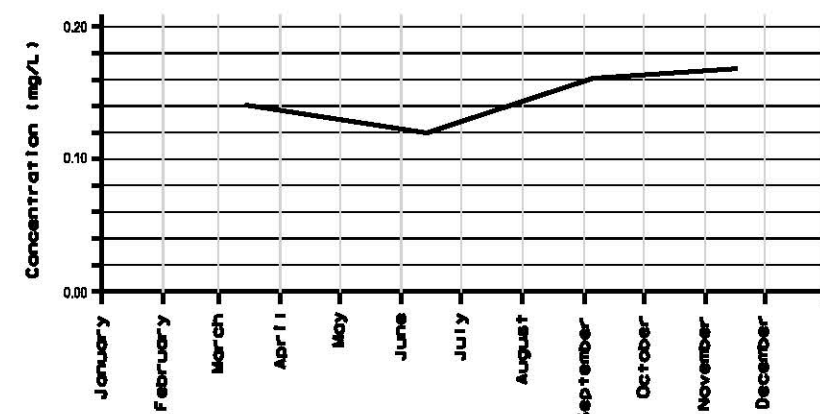
Year: 2014 Constituent: Benzene



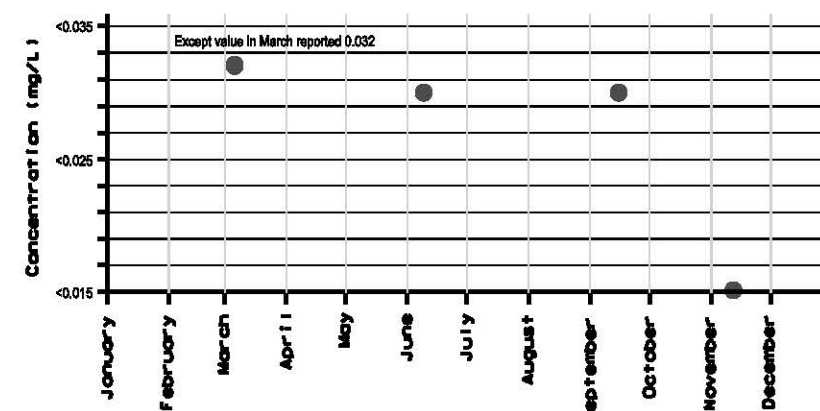
Year: 2014 Constituent: Toluene



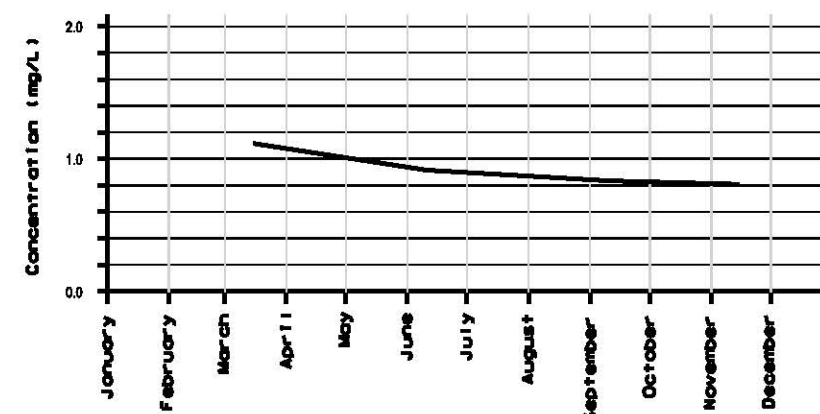
Year: 2014 Constituent: Ethyl Benzene



Year: 2014 Constituent: Total Xylenes

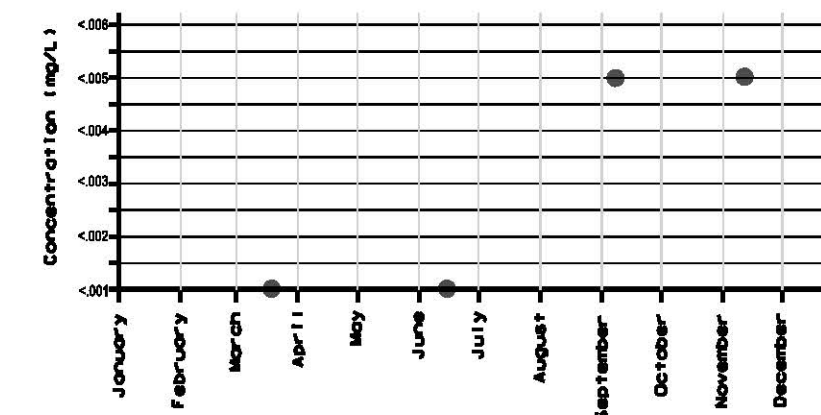


Year: 2014 Constituent: MTBE

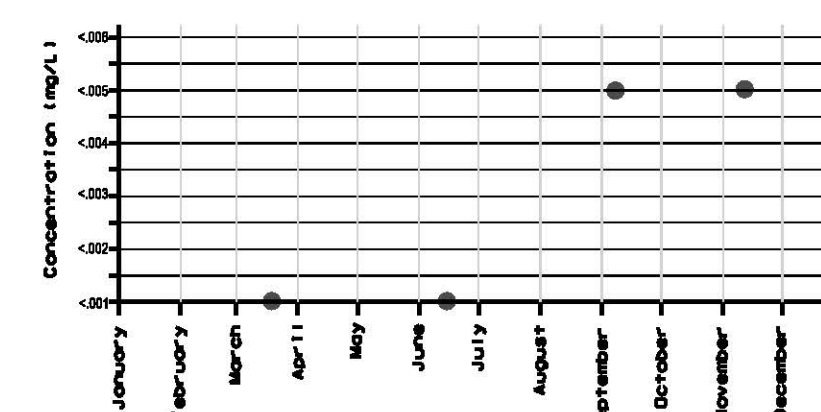


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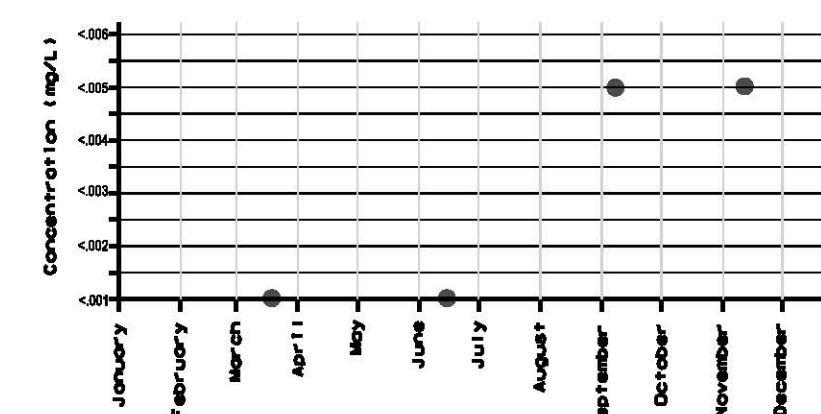
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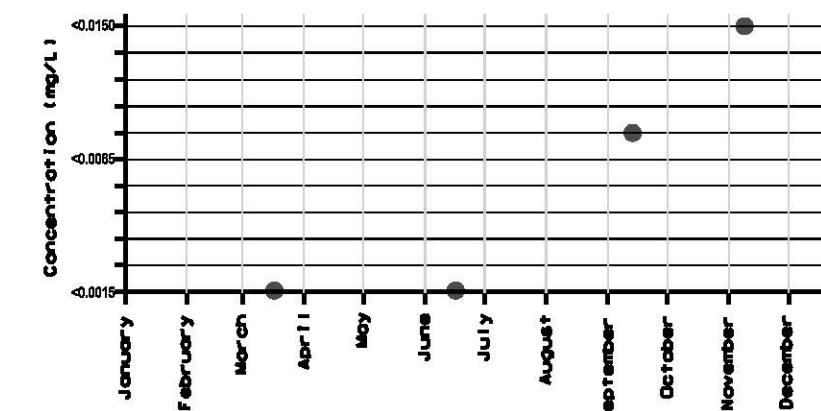
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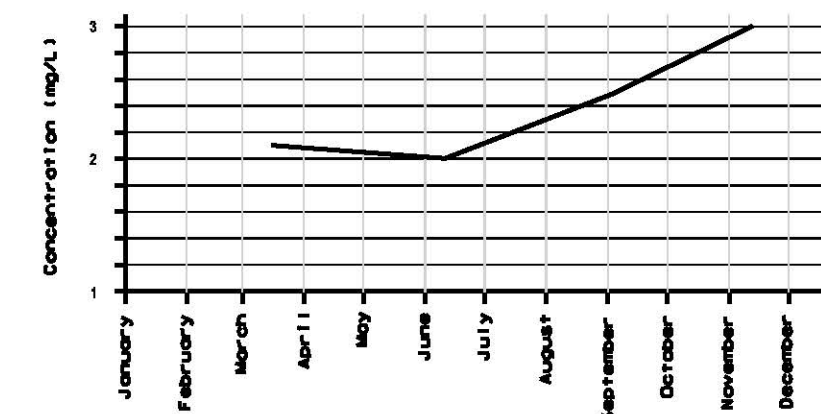
Year: 2014 Constituent: Ethyl Benzene



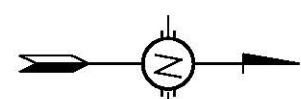
Year: 2014 Constituent: Total Xylenes



Year: 2014 Constituent: MTBE



4601 Ripley
El Paso, Texas
79922
915-584-1317



NTS

Project #: 0625859

Figure 16.1

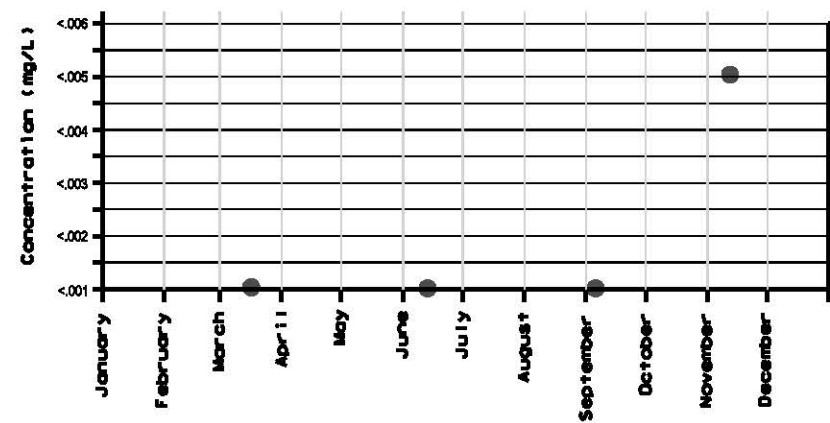
WELL GROUP C CONSTITUENTS

WESTERN REFINING - GALLUP REFINERY

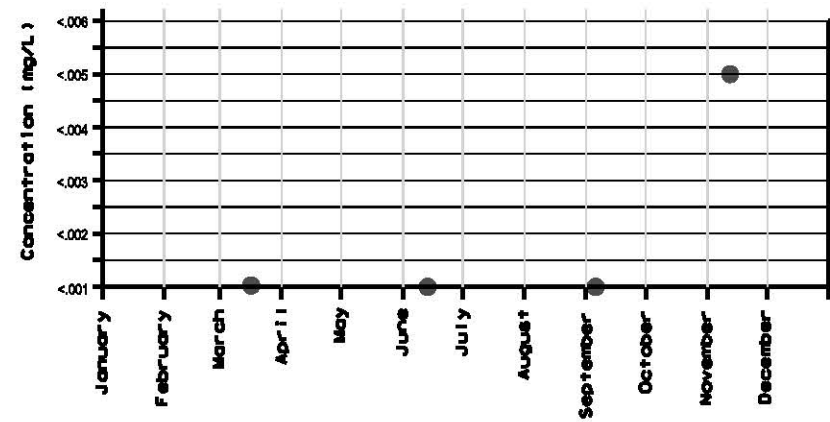
Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: March 6, 2015

Well ID: OW-30

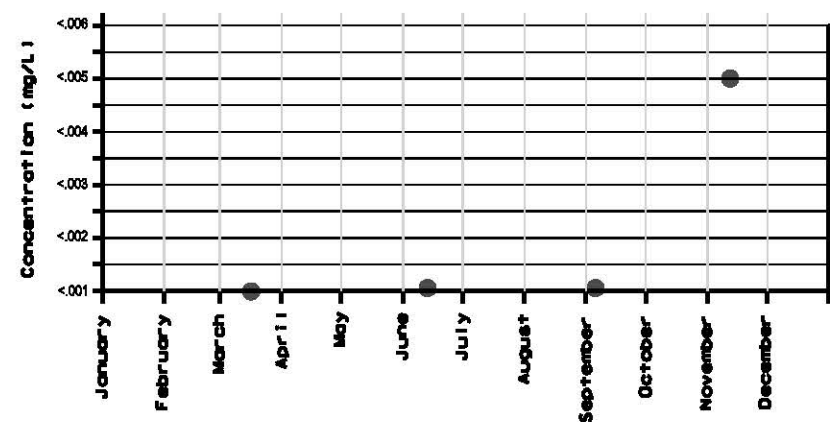
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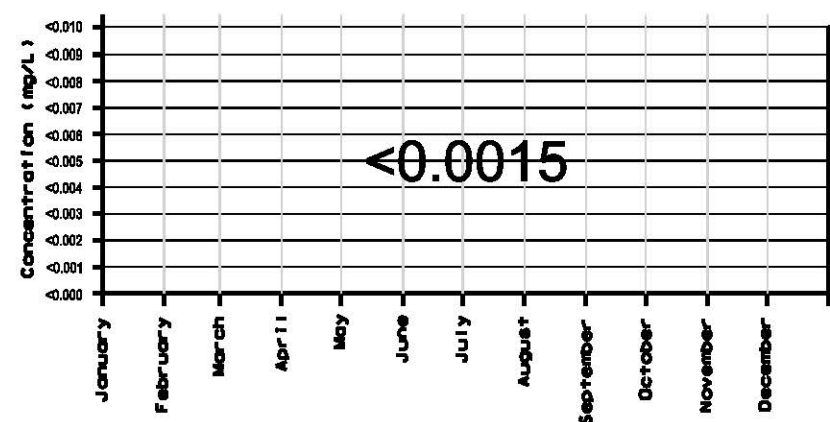
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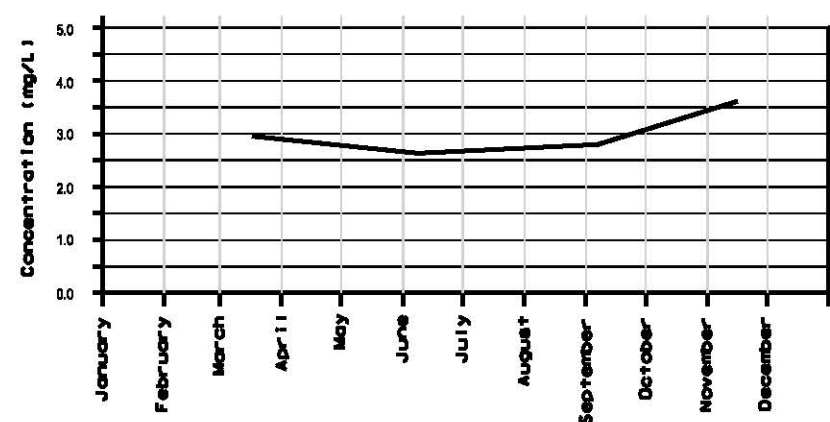
Year: 2014 Constituent: Ethyl Benzene



Year: 2014 Constituent: Total Xylenes

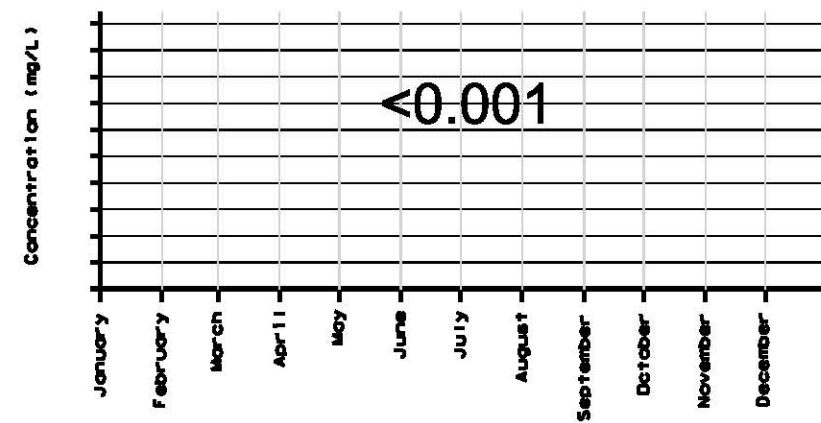


Year: 2014 Constituent: MTBE

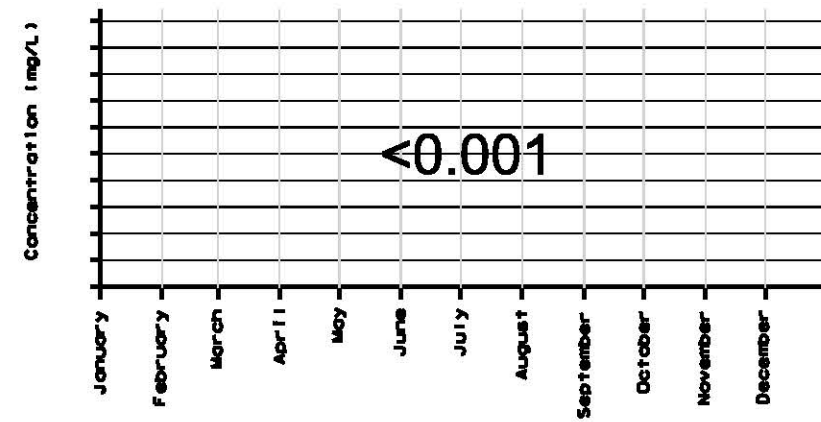


Well ID: OW-50

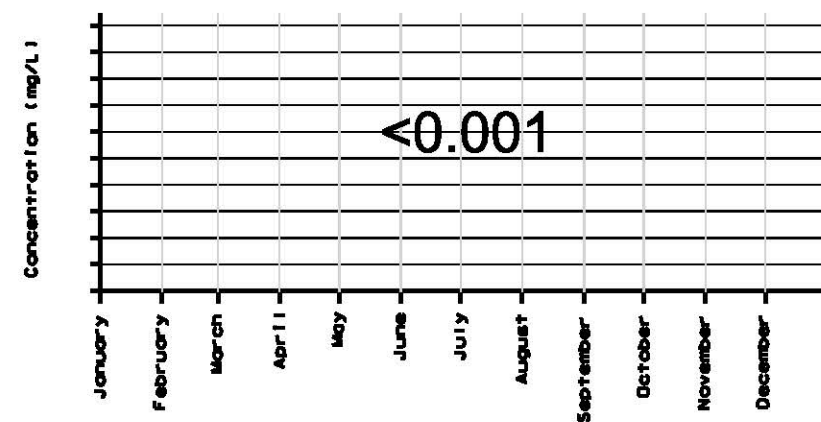
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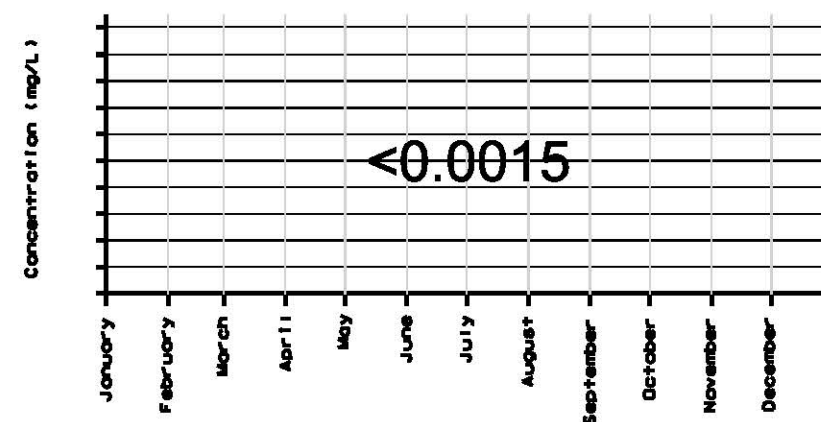
Year: 2014 Constituent: Toluene



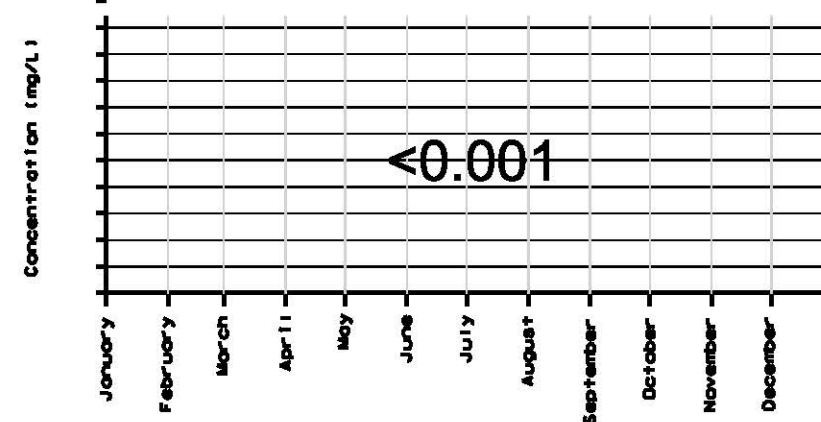
Year: 2014 Constituent: Ethyl Benzene



Year: 2014 Constituent: Total Xylenes

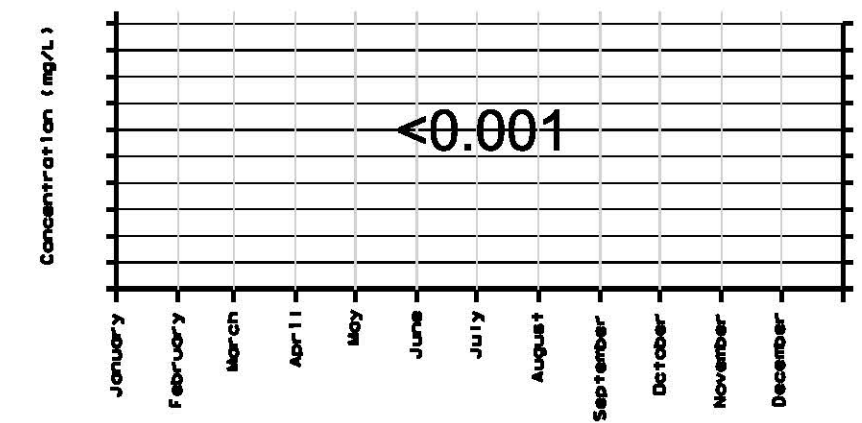


Year: 2014 Constituent: MTBE

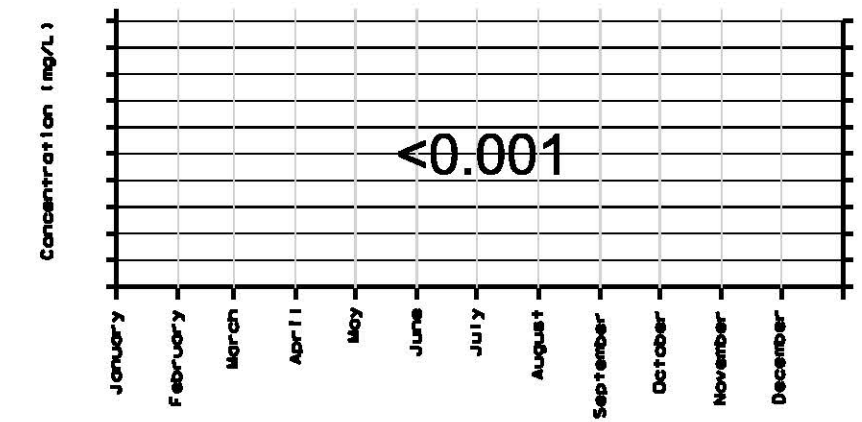


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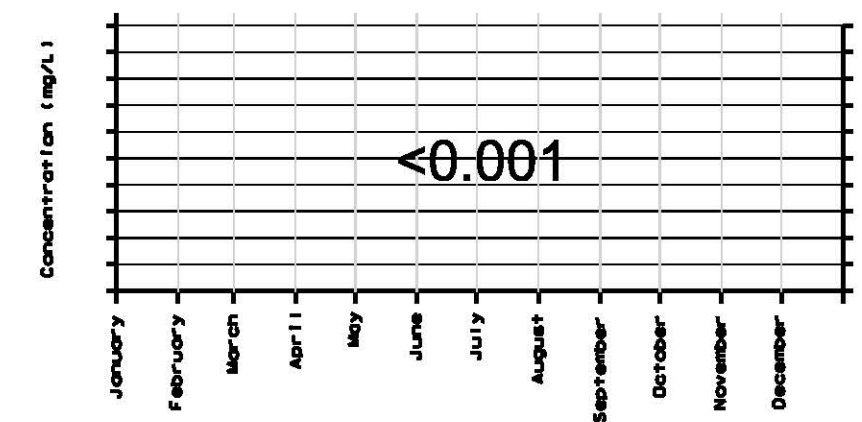
Year: 2014 Constituent: Benzene



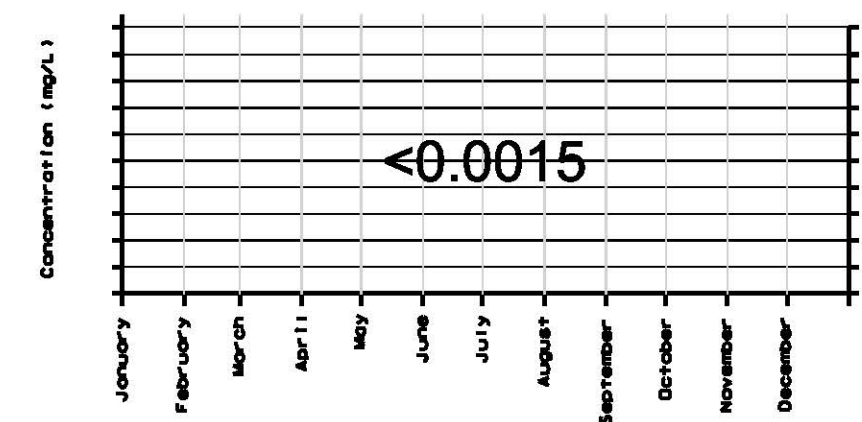
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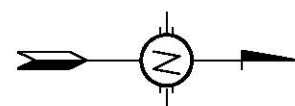
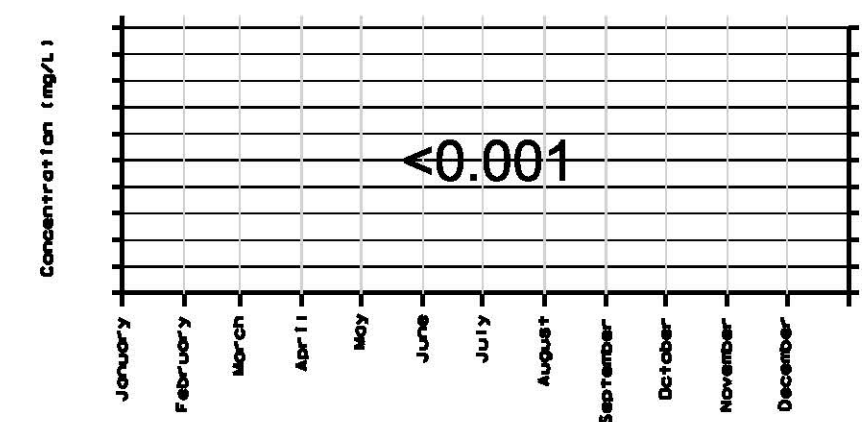
Year: 2014 Constituent: Ethyl Benzene



Year: 2014 Constituent: Total Xylenes



Year: 2014 Constituent: MTBE



NTS

Project #: 0625859

Figure 16.1A

WELL GROUP C CONSTITUENTS

WESTERN REFINING - GALLUP REFINERY

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301
Date: March 6, 2015



APPENDIX A

SEPARATE PHASE HYDROCARBON RECOVERY LOGS

APPENDIX A - RW-1 HYDROCARBON RECOVERY LOG
2/22/05 thru 12/2014

Measurement Date	Time	Quarter	Method	Status	Depth to Product (ft)	Depth to Water (ft)	Product Thickness Level ² (ft)	Product Bailed or Purged ² (gal)	Water Purged ² (gal)
2/22/2005	8:30	1st	NR	Start	32.46	36.5	4.04	14	NR
3/2/2005	7:45	1st	NR	Start	32.42	36.44	4.02	9	NR
3/8/2005	8:30	1st	NR	Start	31.92	36.35	4.43	15	NR
3/9/2005	830	1st	NR	Start	31.92	37.5	5.58	4	NR
3/11 to 3/18/05	NR	1st	NR	Start	NR	NR	NR	74	NR
3/18 to 3/23/05	NR	1st	Pump	Continue pumping	NR	NR	NR	48	NR
3/23 to 4/1/05	NR	1st	Pump	Continue pumping	NR	NR	NR	62	NR
4/1 To 4/4/05		2nd	Pump	Pump shutdown to measure	NR	NR	NR	27	NR
4/5/2005	11:30	2nd	Pump		34.75	38.92	4.17	NR	NR
4/4 to 4/15/05	11:00	2nd	Pump	Continue pumping	NR	NR	NR	50	NR
4-15 to 5-5-05	12:30	2nd	Pump	Continue pumping	NR	NR	NR	45	154
5-5 to 6-17-05	11:30	2nd	Pump	Continue pumping	NR	NR	NR	24	196
6/27/2005	14:30	2nd		Pump shutdown to measure	NR	NR	NR	NR	NR
6/28/2005	11:30	2nd			32.46	33.25	0.79	NR	NR
6/28/2005		2nd	Pump	Continue pumping	NR	NR	NR	NR	NR
6/17 to 7/8/2005	10:30	2nd	Pump	Continue pumping	NR	NR	NR	18	146
7/8 to 8/9/2005	13:30	3rd	Pump	Continue pumping	NR	NR	NR	28	350
8/9 to 9/16/2005	11:35	3rd			36.46	36.54	0.08	8	240
12/5/2005	13:15	4th			31.92	34.71	2.79	NR	NR
12/8/2005	14:00	4th	Pump	Start	NR	NR	NR	NR	NR
12/22/2005	15:30	4th		stop	NR	NR	NR	5	120
12/29/2005	14:00	4th	Bailer	Hand bailed	NR	NR	NR	0.5	4.5
3/16/2006	13:00	1st.			NR	NR	NR	NR	NR
3/16/2006	14:30	1st.	Pump	Start	32.23	34.48	2.25	NR	NR
3/23/2006	14:30	1st.		Stop	NR	NR	NR	NR	NR
3/27/2006	15:30	1st.	Pump	Start	NR	NR	NR	NR	NR
3/31/2006	11:30	1st.	Pump	Continue pumping	NR	NR	NR	7	174
4/3/2006	11:30	2nd		Stop	NR	NR	NR	1	38
4/4/2006	11:00	2nd			32.75	33.08	0.33	NR	NR
6/6/2006	13:00	2nd			32.39	34.54	2.15	NR	NR
6/8/2006	15:00	2nd	Pump	Start	NR	NR	NR	NR	NR
6/29/2006	10:00	2nd		Stop	NR	NR	NR	8	365
7/31/2006	11:45	3rd			33.06	33.48	0.42	NR	NR
7/31/2006	11:45	3rd	Pump	Start pump	NR	NR	NR	NR	NR
8/3/2006	14:20	3rd		Stopped pump	NR	NR	NR	2	87
8/8/2006	9:00	3rd	Pump	Start pump	NR	NR	NR	NR	NR
8/10/2006	15:30	3rd	Pump	Start pump	NR	NR	NR	NR	NR
8/22/2006	9:00	3rd		Stopped. Pulled pump	NR	NR	NR	4.9	373
8/22/2006	9:45	3rd	Pump	Start pump	33.1	33.4	0.3	NR	NR
12/21/2006	15:55	4th	Pump	Start pump	35.2	36	0.8	0.62	70
2/21/2007	10:15	1st.	Pump	Start pump	33.42	34.6	1.18	0.63	53.5
6/5/2007	10:00	2nd		Compressor Down	32.42	32.71	0.29	NR	NR

RW-1 HYDROCARBON RECOVERY LOG - Continued

Measurement Date	Time	Quarter	Method	Status	Depth to Product (ft)	Depth to Water (ft)	Product Thickness Level ² (ft)	Product Bailed or Purged ² (gal)	Water Purged ² (gal)
6/5/2007	10:10	2nd		Hand Bailed	NR	NR	NR	0.05	9
6/6/2007	8:40	2nd		Hand bailed	NR	NR	NR	0.1	11
6/13/2007	14:00	2nd		Hand bailed	NR	NR	NR	0.1	12
6/14/2007	10:40	2nd		Hand bailed	NR	NR	NR	0.05	8
7/10/2007	10:08	3rd		Hand bailed	32.42	32.71	0.29	0.3	18
7/11/2007	9:25	3rd		Hand bailed	NR	NR	NR	0.21	NR
7/23/2007	10:00	3rd		Hand bailed	NR	NR	NR	0.1	NR
11/26/2007	10:50	4th		Hand bailed	30.76	36.45	5.69	0.18	37
2/18/2008	15:32	1st.		Hand Bailed - pump frozen	30.18	34.77	4.59	1.66	36
5/21/2008	14:10	2nd	Pump	Used Pump	30.33	34.57	4.24	1.39	51
9/12/2008 ¹	14:30	3rd		Bladder pump malfunctioned	30.03	34.59	4.56	Not Bailed	0
11/13/2008	13:00	4th	Pump	Used Pump	30.02	34.63	4.61	0.94	65
2/11/2009	14:05	1st.	Pump	Used Pump	30.21	31.72	1.51	0.29	90
5/5/2009	11:30	2nd	Pump	Used Pump	30.22	30.8	0.58	0.41	76
8/10/2009	9:22	3rd	Pump	Used Pump	30.69	31.02	0.33	0.89	98
10/28/2009	10:55	4th	Pump	Used Pump	30.56	30.75	0.19	0.19	74
3/3/2010	9:00	1st	Pump	Used Pump	30.89	31.05	0.16	0.21	31
6/3/2010	13:10	2nd	Pump	Used Pump	30.99	31.09	0.1	0.1	32
9/20/2010	14:00	3rd	Pump	Used Pump	29.91	30.06	0.15	0.25	34
11/3/2010	9:10	4th	Pump	Used Pump	30.89	31.01	0.12	0.1	31
3/9/2011	10:19	1st	Pump	Used Pump	30.04	30.15	0.11	0.12	40
6/27/2011	8:05	2nd	Pump	Used Pump	30.52	30.63	0.11	0.1	45
10/3/2011	15:07	Annual	Pump	Used Pump	30.81	30.9	0.09	0.11	42
11/8/2011	8:30	4th	Pump	Used Pump	30.77	30.85	0.08	0.09	38
3/15/2012	10:30	1st	Pump	Used Pump	29.31	29.34	0.03	0.02	22
6/4/2012	9:00	2nd	Pump	Used Pump	29.39	29.41	0.02	0.05	40
8/13/2012	10:30	3rd	Pump	Used Pump	29.54	30.13	0.59	0.4	40
10/8/2012	9:40	4th	Pump	Used Pump	29.28	30.18	0.9	0.5	35
3/26/2013	10:25	1st	Pump	Used Pump	29.11	32.6	3.49	0.028	24
6/17/2013	11:50	2nd	Pump	Used Pump	29.37	33.1	3.73	0.75	18
9/16/2013	11:05	3rd	Pump	Used Pump	28.75	33.09	4.34	0.8	19
11/12/2013	9:25	4th	Pump	Used Pump	28.73	33.11	4.38	0.75	25
3/7/2014	NR	1st	Pump	Used Pump	28.15	31.65	3.5	0.75	28
6/9/2014	NR	2nd	Pump	Used Pump	28.31	33.06	4.75	0.75	25
9/18/2014 ³	NR	3rd		Annual Sampling Only	28.05	Unknown			
11/13/2014	NR	4th	Pump	Used Pump	28.11	33.04	4.93	0.87	30
					YTD TOTALS		91.79	469.258	3555

NOTES:

FT - Feet

Gal - Gallon

NR - Not recorded

YTD -Year to date

1)Bladder pump has torn diaphragm. Pump non-repairable. Ordered new pump

2) Measurements given are estimated values based on the technicians interpretation and should not be viewed as accurate.

3) Annual Samples collected - no purging done at this time. Technician did not record DTW measurement.



APPENDIX B

APPLICABLE STANDARDS

Table A-1: NMED Soil Screening Levels

Chemical	Residential Soil (mg/kg)	End- point	Industrial/ Occupational Soil (mg/kg)	End- point	Construction Worker Soil (mg/kg)	End- point	Tap Water (ug/L)	End- point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Acenaphthene	3.48E+03	n	5.05E+04	n	1.51E+04	n	5.35E+02	n	4.12E+00	8.25E+01
Acetaldehyde	2.49E+02	n	1.17E+03	n	2.17E+02	n	1.88E+01	n	3.29E-03	6.58E-02
Acetone	6.63E+04	n	9.60E+05	nls	2.42E+05	nls	1.41E+04	n	2.49E+00	4.98E+01
Acrylonitrile	4.93E+00	c	2.46E+01	c	3.52E+01	n	5.23E-01	c	9.77E-05	1.95E-03
Acetophenone	7.82E+03	ns	1.30E+05	nls	3.54E+04	ns	1.92E+03	n	4.82E-01	9.64E+00
Acrolein	4.54E-01	n	2.16E+00	n	4.01E-01	n	4.15E-02	n	7.29E-06	1.46E-04
Aldrin	3.11E-01	c	1.50E+00	c	8.07E+00	n	4.54E-02	c	5.60E-03	1.12E-01
Aluminum	7.80E+04	n	1.29E+06	nl	4.14E+04	n	1.99E+04	n	2.99E+04	5.97E+05
Anthracene	1.74E+04	n	2.53E+05	nl	7.53E+04	n	1.72E+03	n	4.25E+01	8.51E+02
Antimony	3.13E+01	n	5.19E+02	n	1.42E+02	n	7.26E+00	n	3.28E-01	6.56E+00
Arsenic	4.25E+00	c	2.15E+01	c	5.74E+01	n	5.13E-01	c	1.50E-02	2.99E-01
Barium	1.56E+04	n	2.55E+05	nl	4.39E+03	n	3.28E+03	n	1.35E+02	2.70E+03
Benzene	1.78E+01	c	8.72E+01	c	1.42E+02	n	4.54E+00	c	1.90E-03	3.80E-02
Benzidine	5.18E-03	c	1.12E-01	c	8.12E-01	c	1.07E-03	c	2.09E-06	4.17E-05
Benzo(a)anthracene	1.53E+00	c	3.23E+01	c	2.40E+02	c	3.43E-01	c	9.11E-02	1.82E+00
Benzo(a)pyrene	1.53E-01	c	3.23E+00	c	2.40E+01	c	3.43E-02	c	3.02E-02	6.05E-01
Benzo(b)fluoranthene	1.53E+00	c	3.23E+01	c	2.40E+02	c	3.43E-01	c	3.09E-01	6.17E+00
Benzo(k)fluoranthene	1.53E+01	c	3.23E+02	c	2.31E+03	c	3.43E+00	c	3.02E+00	6.05E+01
Beryllium	1.56E+02	n	2.58E+03	n	1.48E+02	n	1.24E+01	n	9.79E+00	1.96E+02
a-BHC (a-Hexachlorocyclohexane, a-HCH)	8.45E-01	c	4.07E+00	c	2.97E+01	c	6.80E-02	c	2.98E-04	5.96E-03
b-BHC (b-Hexachlorocyclohexane, b-HCH)	2.96E+00	c	1.43E+01	c	1.04E+02	c	2.38E-01	c	1.04E-03	2.09E-02
g-BHC (Lindane)	5.63E+00	c	2.83E+01	c	9.43E+01	n	4.08E-01	c	1.79E-03	3.58E-02
1,1-Biphenyl	6.32E+01	n	2.98E+02	n	5.46E+01	n	8.34E-01	n	6.56E-03	1.31E-01
Bis(2-chloroethyl) ether	3.11E+00	c	1.57E+01	c	1.95E+00	c	1.36E-01	c	3.03E-05	6.05E-04
Bis(2-chloroisopropyl) ether	9.93E+01	c	5.19E+02	cs	3.54E+03	cs	9.76E+00	c	2.37E-03	4.73E-02
Bis(2-ethylhexyl) phthalate	3.80E+02	c	1.83E+03	c	5.38E+03	n	5.56E+01	c	9.99E+00	2.00E+02
Bis(chloromethyl) ether	2.08E-03	c	1.02E-02	c	4.81E-02	c	7.20E-04	c	1.50E-07	3.00E-06
Boron	1.56E+04	n	2.59E+05	nl	5.14E+04	n	3.95E+03	n	1.25E+01	2.51E+02
Bromodichloromethane	6.19E+00	c	3.02E+01	c	1.43E+02	c	1.34E+00	c	3.10E-04	6.21E-03
Bromomethane	1.77E+01	n	9.45E+01	n	1.79E+01	n	7.54E+00	n	1.71E-03	3.43E-02
1,3-Butadiene	6.86E-01	c	3.41E+00	c	2.02E+00	n	1.80E-01	c	1.04E-04	2.07E-03

Chemical	Residential Soil (mg/kg)	End- point	Industrial/ Occupational Soil (mg/kg)	End- point	Construction Worker Soil (mg/kg)	End- point	Tap Water (ug/L)	End- point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
2-Butanone (Methyl ethyl ketone, MEK)	3.74E+04	n	4.11E+05	nls	9.17E+04	ns	5.56E+03	n	1.00E+00	2.01E+01
tert-Butyl methyl ether (MTBE)	9.75E+02	c	4.82E+03	c	2.42E+04	cs	1.43E+02	c	2.77E-02	5.53E-01
Cadmium	7.05E+01	n	1.11E+03	n	7.21E+01	n	6.24E+00	n	4.69E-01	9.39E+00
Carbon disulfide	1.55E+03	ns	8.54E+03	ns	1.62E+03	ns	8.10E+02	n	2.21E-01	4.42E+00
Carbon tetrachloride	1.07E+01	c	5.25E+01	c	2.02E+02	n	4.53E+00	c	1.66E-03	3.33E-02
Chlordane	1.77E+01	c	8.90E+01	c	1.53E+02	n	2.23E+00	c	1.13E-01	2.26E+00
2-Chloroacetophenone	1.72E+05	nl	8.12E+05	nl	2.81E+02	n				
2-Chloro-1,3-butadiene	1.75E-01	c	8.48E-01	c	3.95E+00	c	1.87E-01	c	9.83E-05	1.97E-03
1-Chloro-1,1-difluoroethane	1.09E+05	nls	5.15E+05	nls	9.58E+04	ns	1.04E+05	n	5.34E+01	1.07E+03
Chlorobenzene	3.78E+02	ns	2.16E+03	ns	4.12E+02	ns	7.76E+01	n	4.18E-02	8.36E-01
1-Chlorobutane	3.13E+03	ns	5.19E+04	ns	1.42E+04	ns	6.31E+02	n	2.27E-01	4.53E+00
Chlorodifluoromethane	1.02E+05	nls	4.83E+05	nls	8.98E+04	ns	1.04E+05	n	4.27E+01	8.55E+02
Chloroform	5.90E+00	c	2.87E+01	c	1.34E+02	c	2.29E+00	c	5.46E-04	1.09E-02
Chloromethane	4.11E+01	c	2.01E+02	c	2.35E+02	n	2.03E+01	c	4.76E-03	9.51E-02
b-Chloronaphthalene	6.26E+03	n	1.04E+05	nl	2.83E+04	ns	7.33E+02	n	2.85E+00	5.70E+01
o-Chloronitrobenzene	1.78E+01	c	8.55E+01	c	8.39E+01	n	2.35E+00	c	1.71E-03	3.42E-02
p-Chloronitrobenzene	6.16E+01	n	9.16E+02	n	2.57E+02	n	1.79E+01	n	1.28E-02	2.57E-01
2-Chlorophenol	3.91E+02	n	6.49E+03	n	1.77E+03	n	9.10E+01	n	5.76E-02	1.15E+00
2-Chloropropane	2.86E+02	n	1.35E+03	ns	2.51E+02	ns	2.09E+02	n	6.31E-02	1.26E+00
o-Chlorotoluene	1.56E+03	ns	2.60E+04	ns	7.08E+03	ns	2.33E+02	n	1.78E-01	3.56E+00
Chromium III	1.17E+05	nl	1.95E+06	nl	5.31E+05	nl	1.36E+04	n	2.46E+07	4.91E+08
Chromium VI	3.05E+00	c	7.21E+01	c	6.69E+01	c	2.52E-01	c	4.84E-03	9.68E-02
Chromium (Total)	9.66E+01	c	5.05E+02	c	1.34E+02	n	5.59E+00	c	1.01E+04	2.01E+05
Chrysene	1.53E+02	c	3.23E+03	c	2.31E+04	c	3.43E+01	c	9.30E+00	1.86E+02
Copper	3.13E+03	n	5.19E+04	n	1.42E+04	n	7.90E+02	n	2.78E+01	5.56E+02
Crotonaldehyde	3.66E+00	c	1.91E+01	c	1.30E+02	c	4.04E-01	c	7.11E-05	1.42E-03
Cumene (isopropylbenzene)	2.36E+03	ns	1.42E+04	ns	2.74E+03	ns	4.47E+02	n	5.69E-01	1.14E+01
Cyanide	1.12E+01	n	6.33E+01	n	1.21E+01	n	1.46E+00	n	2.61E-04	5.22E-03
Cyanogen	7.82E+01	n	1.30E+03	n	3.54E+02	n	1.99E+01	n	4.01E-03	8.01E-02
Cyanogen bromide	7.04E+03	n	1.17E+05	nl	3.19E+04	n	1.80E+03	n	5.29E-01	1.06E+01
Cyanogen chloride	3.91E+03	n	6.49E+04	n	1.77E+04	n	9.99E+02	n	2.94E-01	5.88E+00
DDD	2.22E+01	c	1.07E+02	c	7.78E+02	c	3.06E-01	c	5.39E-02	1.08E+00
DDE	1.57E+01	c	7.55E+01	c	5.49E+02	c	2.29E+00	c	4.04E-01	8.08E+00

Chemical	Residential Soil (mg/kg)	End- point	Industrial/ Occupational Soil (mg/kg)	End- point	Construction Worker Soil (mg/kg)	End- point	Tap Water (ug/L)	End- point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
DDT	1.87E+01	c	9.50E+01	c	1.62E+02	n	2.29E+00	c	5.80E-01	1.16E+01
Dibenz(a,h)anthracene	1.53E-01	c	3.23E+00	c	2.40E+01	c	1.06E-01	c	3.05E-01	6.11E+00
1,2-Dibromo-3-chloropropane	8.58E-02	c	1.18E+00	c	5.53E+00	c	3.36E-03	c	1.17E-06	2.34E-05
Dibromochloromethane	1.39E+01	c	6.74E+01	c	3.40E+02	c	1.68E+00	c	3.77E-04	7.54E-03
1,2-Dibromoethane	6.72E-01	c	3.31E+00	c	1.63E+01	c	7.46E-02	c	1.76E-05	3.52E-04
1,4-Dichloro-2-butene	1.15E-01	c	5.58E-01	c	2.59E+00	c	1.34E-02	c	5.00E-06	9.99E-05
1,2-Dichlorobenzene	2.15E+03	ns	1.30E+04	ns	2.50E+03	ns	3.02E+02	n	2.29E-01	4.58E+00
1,4-Dichlorobenzene	3.28E+01	c	1.59E+02	c	7.46E+02	c	4.81E+00	c	3.60E-03	7.20E-02
3,3-Dichlorobenzidine	1.18E+01	c	5.70E+01	c	4.10E+02	c	1.24E+00	c	6.14E-03	1.23E-01
Dichlorodifluoromethane	1.82E+02	n	8.65E+02	ns	1.61E+02	n	1.97E+02	n	3.61E-01	7.23E+00
1,1-Dichloroethane	7.86E+01	c	3.83E+02	c	1.82E+03	cs	2.75E+01	c	6.79E-03	1.36E-01
1,2-Dichloroethane	8.32E+00	c	4.07E+01	c	5.38E+01	n	1.71E+00	c	4.07E-04	8.14E-03
cis-1,2-Dichloroethene	1.56E+02	n	2.60E+03	ns	7.08E+02	n	3.65E+01	n	9.18E-03	1.84E-01
trans-1,2-Dichloroethene	2.95E+02	n	1.61E+03	ns	3.05E+02	n	9.32E+01	n	2.35E-02	4.69E-01
1,1-Dichloroethene	4.40E+02	n	2.26E+03	ns	4.24E+02	n	2.84E+02	n	9.74E-02	1.95E+00
2,4-Dichlorophenol	1.85E+02	n	2.75E+03	n	8.07E+02	n	4.53E+01	n	4.13E-02	8.25E-01
1,2-Dichloropropane	1.78E+01	c	8.68E+01	c	2.54E+01	n	4.37E+00	c	1.21E-03	2.43E-02
1,3-Dichloropropene	2.93E+01	c	1.46E+02	c	1.30E+02	n	4.70E+00	c	1.40E-03	2.80E-02
Dicyclopentadiene	1.73E+00	n	8.14E+00	n	1.51E+00	n	6.25E-01	n	1.71E-03	3.42E-02
Dieldrin	3.33E-01	c	1.60E+00	c	1.17E+01	c	1.71E-02	c	5.18E-04	1.04E-02
Diethyl phthalate	4.93E+04	n	7.33E+05	nl	2.15E+05	nl	1.48E+04	n	4.89E+00	9.79E+01
Di-n-butyl phthalate (Dibutyl phthalate)	6.16E+03	n	9.16E+04	n	2.69E+04	n	8.85E+02	n	1.69E+00	3.38E+01
2,4-Dimethylphenol	1.23E+03	n	1.83E+04	n	5.38E+03	n	3.54E+02	n	3.22E-01	6.45E+00
4,6-Dinitro-o-cresol	4.93E+00	n	7.33E+01	n	2.15E+01	n	1.51E+00	n	1.97E-03	3.94E-02
2,4-Dinitrophenol	1.23E+02	n	1.83E+03	n	5.38E+02	n	3.88E+01	n	3.35E-02	6.71E-01
2,4-Dinitrotoluene	1.71E+01	c	8.23E+01	c	5.36E+02	n	2.37E+00	c	2.46E-03	4.91E-02
2,6-Dinitrotoluene	3.56E+00	c	1.72E+01	c	8.09E+01	n	4.84E-01	c	5.10E-04	1.02E-02
2,4/2,6-Dinitrotoluene Mixture	7.83E+00	c	3.77E+01	c	2.77E+02	c	1.06E+00	c	1.12E-03	2.23E-02
1,4-Dioxane	5.33E+01	c	2.57E+02	c	1.88E+03	c	7.76E+00	c	1.38E-03	2.75E-02
1,2-Diphenylhydrazine	6.66E+00	c	3.21E+01	c	2.34E+02	c	7.73E-01	c	1.88E-03	3.76E-02
Endosulfan	3.70E+02	n	5.50E+03	n	1.61E+03	n	9.87E+01	n	1.02E+00	2.04E+01
Endrin	1.85E+01	n	2.75E+02	n	8.07E+01	n	2.23E+00	n	6.77E-02	1.35E+00
Epichlorohydrin	4.27E+01	n	2.15E+02	n	4.02E+01	n	2.05E+00	n	3.86E-04	7.72E-03

Chemical	Residential Soil (mg/kg)	End- point	Industrial/ Occupational Soil (mg/kg)	End- point	Construction Worker Soil (mg/kg)	End- point	Tap Water (ug/L)	End- point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Ethyl acetate	1.82E+03	n	8.75E+03	n	1.63E+03	n	1.45E+02	n	2.64E-02	5.28E-01
Ethyl acrylate	1.45E+02	c	7.57E+02	c	5.16E+03	cs	1.56E+01	c	2.99E-03	5.97E-02
Ethyl chloride	1.90E+04	ns	8.95E+04	ns	1.66E+04	ns	2.09E+04	n	5.37E+00	1.07E+02
Ethyl ether	1.56E+04	ns	2.60E+05	nls	7.08E+04	ns	3.93E+03	n	7.60E-01	1.52E+01
Ethyl methacrylate	2.73E+03	ns	1.78E+04	ns	3.48E+03	ns	4.55E+02	n	9.15E-02	1.83E+00
Ethylbenzene	7.51E+01	c	3.68E+02	cs	1.77E+03	cs	1.49E+01	c	1.31E-02	2.62E-01
Ethylene oxide	5.02E+00	c	2.48E+01	c	1.23E+02	c	5.08E-01	c	9.09E-05	1.82E-03
Fluoranthene	2.32E+03	n	3.37E+04	n	1.00E+04	n	8.02E+02	n	6.69E+01	1.34E+03
Fluorene	2.32E+03	n	3.37E+04	n	1.00E+04	n	2.88E+02	n	4.00E+00	8.00E+01
Fluoride	4.69E+03	n	7.78E+04	n	1.81E+04	n	1.18E+03	n	1.78E+02	3.56E+03
Furan	7.24E+01	n	1.15E+03	n	3.54E+02	n	1.92E+01	n	6.12E-03	1.22E-01
Heptachlor	1.18E+00	c	5.70E+00	c	4.15E+01	c	4.39E-02	c	2.73E-03	5.45E-02
Hexachlorobenzene	3.33E+00	c	1.60E+01	c	1.17E+02	c	4.87E-01	c	4.61E-03	9.22E-02
Hexachloro-1,3-butadiene	6.16E+01	n	3.29E+02	c	2.69E+02	n	2.95E+00	c	4.39E-03	8.79E-02
Hexachlorocyclopentadiene	3.70E+02	n	5.49E+03	n	8.67E+02	n	2.78E+01	n	6.68E-02	1.34E+00
Hexachloroethane	4.31E+01	n	6.41E+02	c	1.88E+02	n	6.80E+00	n	3.31E-03	6.62E-02
n-Hexane	6.15E+02	ns	3.20E+03	ns	6.03E+02	ns	3.19E+02	n	2.78E+00	5.57E+01
HMX	3.85E+03	n	6.33E+04	n	1.74E+04	n	1.00E+03	n	9.72E-01	1.94E+01
Hydrazine anhydride	1.78E+00	c	8.55E+00	c	5.99E+01	c	2.60E-01	c	4.50E-05	9.00E-04
Hydrogen cyanide	1.02E+01	n	5.72E+01	n	1.09E+01	n	1.46E+00	n	2.61E-04	5.22E-03
Indeno(1,2,3-c,d)pyrene	1.53E+00	c	3.23E+01	c	2.40E+02	c	3.43E-01	c	1.00E+00	2.01E+01
Iron	5.48E+04	n	9.08E+05	nl	2.48E+05	nl	1.38E+04	n	3.48E+02	6.96E+03
Isobutanol (Isobutyl alcohol)	1.85E+04	n	2.75E+05	nl	8.07E+04	n	5.91E+03	n	1.05E+00	2.10E+01
Isophorone	5.61E+03	c	2.70E+04	c	5.37E+04	n	7.79E+02	c	2.11E-01	4.22E+00
Lead	4.00E+02	IEUBK	8.00E+02	IEUBK	8.00E+02	IEUBK				
Lead (tetraethyl-)	6.16E-03	n	9.16E-02	n	3.54E-02	n	1.24E-03	n	4.70E-06	9.41E-05
Maleic hydrazide	3.08E+04	n	4.58E+05	nl	1.35E+05	nl	1.00E+04	n	1.79E+00	3.57E+01
Manganese	1.05E+04	n	1.60E+05	nl	4.64E+02	n	2.02E+03	n	1.31E+02	2.63E+03
Mercury (elemental)	2.38E+01	ns	1.12E+02	ns	2.07E+01	ns	6.26E-01	n	3.27E-02	6.54E-01
Mercury (methyl)	7.82E+00	n	1.30E+02	n	3.54E+01	n	1.96E+00	n	4.45E-04	8.89E-03
Mercury (salts)	2.35E+01	n	3.89E+02	ns	7.71E+01	n	4.92E+00	n	2.56E-01	5.13E+00
Methacrylonitrile	7.70E+00	n	1.23E+02	n	3.28E+01	n	1.91E+00	n	3.71E-04	7.43E-03
Methomyl	1.54E+03	n	2.29E+04	n	6.73E+03	n	4.98E+02	n	9.37E-02	1.87E+00

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Methyl acetate	7.82E+04	ns	1.30E+06	nls	3.54E+05	nls	1.99E+04	n	3.55E+00	7.11E+01
Methyl acrylate	3.50E+02	n	1.85E+03	n	3.48E+02	n	3.90E+01	n	7.13E-03	1.43E-01
Methyl isobutyl ketone	5.81E+03	ns	8.16E+04	ns	2.02E+04	ns	1.24E+03	n	2.40E-01	4.80E+00
Methyl methacrylate	1.11E+04	ns	5.65E+04	ns	1.06E+04	ns	1.39E+03	n	2.61E-01	5.22E+00
Methyl styrene (alpha)	5.48E+03	ns	9.08E+04	ns	2.48E+04	ns	7.65E+02	n	9.43E-01	1.89E+01
Methyl styrene (mixture)	2.73E+02	ns	2.20E+03	ns	4.49E+02	ns	3.73E+01	n	4.70E-02	9.40E-01
Methylcyclohexane	5.50E+03	ns	2.59E+04	ns	4.82E+03	ns	6.26E+03	n	1.58E+01	3.16E+02
Methylene bromide (Dibromomethane)	5.79E+01	n	2.88E+02	n	5.39E+01	n	8.00E+00	n	1.68E-03	3.35E-02
Methylene chloride	4.09E+02	n	5.13E+03	ns	1.21E+03	n	1.06E+02	n	2.35E-02	4.71E-01
Molybdenum	3.91E+02	n	6.49E+03	n	1.77E+03	n	9.87E+01	n	1.99E+00	3.98E+01
Naphthalene	4.97E+01	c	2.41E+02	c	1.59E+02	n	1.65E+00	c	4.11E-03	8.23E-02
Nickel	1.56E+03	n	2.57E+04	n	7.53E+02	n	3.72E+02	n	2.42E+01	4.85E+02
Nitrate	1.25E+05	nl	2.08E+06	nl	5.66E+05	nl	3.16E+04	n	2.13E+01	4.25E+02
Nitrite	7.82E+03	n	1.30E+05	nl	3.54E+04	n	1.97E+03	n	1.33E+00	2.66E+01
Nitrobenzene	6.04E+01	c	2.93E+02	c	3.53E+02	n	1.40E+00	c	7.20E-04	1.44E-02
Nitroglycerin	6.16E+00	n	9.16E+01	n	2.69E+01	n	1.96E+00	n	6.80E-04	1.36E-02
N-Nitrosodiethylamine	7.94E-03	c	1.71E-01	c	1.25E+00	c	1.65E-03	c	4.92E-07	9.84E-06
N-Nitrosodimethylamine	2.34E-02	c	5.03E-01	c	2.14E+00	n	4.90E-03	c	1.02E-06	2.03E-05
N-Nitrosodi-n-butylamine	7.81E-01	c	3.77E+00	c	2.46E+01	c	2.72E-02	c	4.21E-05	8.41E-04
N-Nitrosodiphenylamine	1.09E+03	c	5.24E+03	c	3.79E+04	c	1.21E+02	c	4.98E-01	9.95E+00
N-Nitrosopyrrolidine	2.54E+00	c	1.22E+01	c	8.89E+01	c	3.70E-01	c	1.15E-04	2.30E-03
m-Nitrotoluene	6.16E+00	n	9.16E+01	n	2.69E+01	n	1.74E+00	n	1.25E-03	2.50E-02
o-Nitrotoluene	3.16E+01	c	1.65E+02	c	3.19E+02	n	3.13E+00	c	2.28E-03	4.56E-02
p-Nitrotoluene	2.47E+02	n	1.60E+03	c	1.08E+03	n	4.24E+01	c	3.05E-02	6.09E-01
Pentachlorobenzene	4.93E+01	n	7.33E+02	n	2.15E+02	n	3.07E+00	n	1.76E-02	3.52E-01
Pentachlorophenol	9.85E+00	c	4.45E+01	c	3.46E+02	c	4.00E-01	c	3.04E-03	6.08E-02
Perchlorate	5.48E+01	n	9.08E+02	ns	2.48E+02	n	1.38E+01	n	5.85E-03	1.17E-01
Phenanthrene	1.74E+03	n	2.53E+04	n	7.53E+03	n	1.70E+02	n	4.30E+00	8.59E+01
Phenol	1.85E+04	n	2.75E+05	nl	7.74E+04	n	5.76E+03	n	2.62E+00	5.23E+01
Polychlorinatedbiphenyls (PCBs)										
Aroclor 1016	3.98E+00	n	5.74E+01	n	1.72E+01	n	1.40E+00	n	1.01E-01	2.01E+00
Aroclor 1221	1.81E+00	c	8.57E+00	c	5.53E+01	cs	5.54E-02	c	7.08E-04	1.42E-02
Aroclor 1232	1.86E+00	c	8.82E+00	c	5.76E+01	cs	5.54E-02	c	7.08E-04	1.42E-02

Chemical	Residential Soil (mg/kg)	End- point	Industrial/ Occupational Soil (mg/kg)	End- point	Construction Worker Soil (mg/kg)	End- point	Tap Water (ug/L)	End- point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Aroclor 1242	2.43E+00	c	1.15E+01	c	8.53E+01	c	3.89E-01	c	4.57E-02	9.14E-01
Aroclor 1248	2.43E+00	c	1.15E+01	c	8.53E+01	c	3.89E-01	c	4.48E-02	8.96E-01
Aroclor 1254	1.14E+00	n	1.15E+01	c	4.91E+00	n	3.89E-01	c	7.63E-02	1.53E+00
Aroclor 1260	2.43E+00	c	1.15E+01	c	8.53E+01	c	3.89E-01	c	2.04E-01	4.09E+00
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	3.75E-01	c	1.77E+00	c	1.72E+00	n	5.99E-02	c	3.21E-02	6.42E-01
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	3.75E+00	c	1.77E+01	c	1.72E+01	n	5.99E-01	c	3.14E-01	6.29E+00
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	1.05E-01	2.10E+00
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	6.27E-02	1.25E+00
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	6.40E-02	1.28E+00
2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	6.40E-02	1.28E+00
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	1.25E-03	c	5.89E-03	c	5.73E-03	n	2.00E-04	c	6.27E-05	1.25E-03
2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	3.91E-02	7.83E-01
2',3',4,4',5-Pentachlorobiphenyl (PCB 118)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	3.84E-02	7.67E-01
2',3,3',4,4'-Pentachlorobiphenyl (PCB 105)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	3.91E-02	7.83E-01
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	1.25E+00	c	5.89E+00	c	5.73E+00	n	2.00E-01	c	3.91E-02	7.83E-01
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	3.75E-04	c	1.77E-03	c	1.72E-03	n	5.99E-05	c	1.15E-05	2.30E-04
3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	3.75E-01	c	1.77E+00	c	1.72E+00	n	5.99E-02	c	7.03E-03	1.41E-01
3,4,4',5-Tetrachlorobiphenyl (PCB 81)	1.25E-01	c	5.89E-01	c	5.73E-01	n	2.00E-02	c	2.34E-03	4.69E-02
Propylene oxide	2.56E+01	c	1.33E+02	c	7.99E+02	n	2.66E+00	c	4.82E-04	9.65E-03
Pyrene	1.74E+03	n	2.53E+04	n	7.53E+03	n	1.17E+02	n	9.59E+00	1.92E+02
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	6.04E+01	c	3.11E+02	c	1.01E+03	n	7.02E+00	c	2.16E-03	4.31E-02
Selenium	3.91E+02	n	6.49E+03	n	1.75E+03	n	9.87E+01	n	5.11E-01	1.02E+01
Silver	3.91E+02	n	6.49E+03	n	1.77E+03	n	8.12E+01	n	6.88E-01	1.38E+01
Strontium	4.69E+04	n	7.79E+05	nl	2.12E+05	nl	1.18E+04	n	4.17E+02	8.33E+03
Styrene	7.26E+03	ns	5.13E+04	ns	1.02E+04	ns	1.21E+03	n	1.03E+00	2.06E+01
Sulfolane	6.16E+01	n	9.16E+02	n	2.65E+02	n	2.00E+01	n	3.75E-03	7.49E-02
2,3,7,8-TCDD	4.90E-05	c	2.48E-04	c	2.26E-04	n	5.99E-06	c	2.24E-06	4.48E-05
2,3,7,8-TCDF	4.90E-04	c	2.48E-03	c	1.72E-02	c	2.01E-06	c	4.22E-07	8.44E-06
1,2,4,5-Tetrachlorobenzene	1.85E+01	n	2.75E+02	n	8.07E+01	n	1.66E+00	n	5.83E-03	1.17E-01
1,1,1,2-Tetrachloroethane	2.81E+01	c	1.37E+02	c	6.59E+02	cs	5.72E+00	c	1.80E-03	3.59E-02
1,1,2,2-Tetrachloroethane	7.98E+00	c	3.94E+01	c	1.97E+02	c	7.57E-01	c	2.40E-04	4.80E-03
Tetrachloroethene	1.11E+02	ns	6.29E+02	ns	1.20E+02	ns	4.03E+01	n	1.60E-02	3.21E-01
Tetryl (Trinitrophenylmethylnitramine)	1.56E+02	n	2.59E+03	n	7.06E+02	n	3.94E+01	n	2.79E-01	5.59E+00

Chemical	Residential Soil (mg/kg)	End- point	Industrial/ Occupational Soil (mg/kg)	End- point	Construction Worker Soil (mg/kg)	End- point	Tap Water (ug/L)	End- point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Thallium	7.82E-01	n	1.30E+01	n	3.54E+00	n	1.97E-01	n	1.41E-02	2.81E-01
Toluene	5.23E+03	ns	6.13E+04	ns	1.40E+04	ns	1.09E+03	n	6.07E-01	1.21E+01
Toxaphene	4.84E+00	c	2.33E+01	c	1.70E+02	c	1.53E-01	c	1.77E-02	3.54E-01
Tribromomethane (Bromoform)	6.74E+02	c	3.25E+03	c	5.38E+03	n	9.19E+01	c	2.05E-02	4.11E-01
1,1,2-Trichloro-1,2,2-trifluoroethane	5.08E+04	ns	2.43E+05	nls	4.53E+04	ns	5.50E+04	n	1.60E+02	3.20E+03
1,2,4-Trichlorobenzene	8.29E+01	n	4.23E+02	ns	7.91E+01	n	3.98E+00	n	8.82E-03	1.76E-01
1,1,1-Trichloroethane	1.44E+04	ns	7.25E+04	ns	1.36E+04	ns	8.00E+03	n	2.55E+00	5.11E+01
1,1,2-Trichloroethane	2.61E+00	n	1.24E+01	n	2.30E+00	n	4.15E-01	n	1.11E-04	2.23E-03
Trichloroethylene	6.77E+00	n	3.65E+01	n	6.90E+00	n	2.82E+00	n	8.75E-04	1.75E-02
Trichlorofluoromethane	1.23E+03	ns	6.03E+03	ns	1.13E+03	ns	1.14E+03	n	7.84E-01	1.57E+01
2,4,5-Trichlorophenol	6.16E+03	n	9.16E+04	n	2.69E+04	n	1.17E+03	n	3.31E+00	6.62E+01
2,4,6-Trichlorophenol	6.16E+01	n	9.16E+02	n	2.69E+02	n	1.19E+01	n	3.37E-02	6.74E-01
1,1,2-Trichloropropane	3.91E+02	n	6.49E+03	ns	1.77E+03	ns	8.81E+01	n	2.79E-02	5.59E-01
1,2,3-Trichloropropane	5.10E-02	c	1.21E+00	c	6.31E+00	n	7.47E-03	c	2.60E-06	5.21E-05
Triethylamine	1.93E+02	n	9.09E+02	n	1.69E+02	n	1.46E+01	n	3.65E-03	7.31E-02
2,4,6-Trinitrotoluene	3.60E+01	n	5.73E+02	n	1.61E+02	n	9.80E+00	n	4.30E-02	8.61E-01
Uranium (soluble salts)	2.34E+02	n	3.88E+03	ns	2.77E+02	ns	5.92E+01	n	2.67E+01	5.33E+02
Vanadium	3.94E+02	n	6.53E+03	n	6.14E+02	n	6.31E+01	n	6.31E+01	1.26E+03
Vinyl acetate	2.56E+03	n	1.24E+04	ns	2.30E+03	ns	4.09E+02	n	7.52E-02	1.50E+00
Vinyl bromide	2.71E+00	c	1.31E+01	c	8.46E+00	n	1.75E+00	c	4.62E-04	9.23E-03
Vinyl chloride	7.42E-01	c	2.84E+01	c	1.61E+02	c	2.01E-01	c	6.75E-05	1.35E-03
m-Xylene	7.64E+02	ns	3.73E+03	ns	6.96E+02	ns	1.93E+02	n	1.48E-01	2.97E+00
o-Xylene	8.05E+02	ns	3.94E+03	ns	7.36E+02	ns	1.93E+02	n	1.49E-01	2.98E+00
Xylenes	8.71E+02	ns	4.28E+03	ns	7.98E+02	ns	1.93E+02	n	1.49E-01	2.98E+00
Zinc	2.35E+04	n	3.89E+05	nl	1.06E+05	nl	5.96E+03	n	3.71E+02	7.41E+03

c – carcinogen

cs - carcinogenic, SSL may exceed saturation

DAF – Dilution Attenuation Factor

mg/kg – milligrams per kilogram

n – noncarcinogenic

nl - noncarcinogen, SSL may exceed ceiling limit

ns - noncarcinogen, SSL may exceed saturation

nls - noncarcinogen, SSL may exceed both saturation and ceiling limit

SSL – Soil Screening Level

µg/L – micrograms per liter

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1				
SFO (mg/kg-day) ⁻¹	k e y	IUR (ug/m ³ -y) ⁻¹	k e y	RfD _o (mg/kg-day)	k e y	RfC _i (mg/m ³)	k e y	v o l a t i l e	m u t a g e n	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)	
1.8E-02	C	5.1E-06	C	1.5E-01	I					-1.5	1	1	Yes	ALAR	1596-84-5	4.3E+00	1.3E+04		4.3E+00	3.0E+03	1.0E+07		3.0E+03		
8.7E-03	I			4.0E-03	I					-0.85	1	1	Yes	Acephate	30560-19-1	9.0E+00	1.1E+04		8.9E+00	8.0E+01	1.1E+05		8.0E+01		
		2.2E-06	I			9.0E-03	I	V		-0.34	1	1	Yes	Acetaldehyde	75-07-0			2.6E+00	2.6E+00			1.9E+01	1.9E+01		
				2.0E-02	I					3.03	1	0.9	Yes	Acetochlor	34256-82-1					4.0E+02	2.9E+03		3.5E+02		
				9.0E-01	I	3.1E+01	A	V		-0.24	1	1	Yes	Acetone	67-64-1					1.8E+04	4.4E+06		1.4E+04		
						2.0E-03	X	V		-0.03	1	1	Yes	Acetone Cyanohydrin	75-86-5							6.4E+04	4.2E+00	4.2E+00	
						6.0E-02	I	V		-0.34	1	1	Yes	Acetonitrile	75-05-8								1.3E+02	1.3E+02	
3.8E+00	C	1.3E-03	C	1.0E-01	I			V		1.58	1	1	Yes	Acetophenone	98-86-2					2.0E+03	4.6E+04		1.9E+03		
										3.12	1	1	Yes	Acetylaminofluorene, 2-	53-96-3	2.1E-02	6.4E-02		1.6E-02						
				5.0E-04	I	2.0E-05	I	V		-0.01	1	1	Yes	Acrolein	107-02-8					1.0E+01	1.7E+03	4.2E-02	4.2E-02		
5.0E-01	I	1.0E-04	I			2.0E-03	I		M	-0.67	1	1	Yes	Acrylamide	79-06-1	5.0E-02	2.3E+01		5.0E-02	4.0E+01	2.1E+04		4.0E+01		
				5.0E-01	I	1.0E-03	I	V		0.35	1	1	Yes	Acrylic Acid	79-10-7					1.0E+04	1.1E+06	2.1E+00	2.1E+00		
5.4E-01	I	6.8E-05	I	4.0E-02	A	2.0E-03	I	V		0.25	1	1	Yes	Acrylonitrile	107-13-1	1.4E-01	1.4E+01	8.3E-02	5.2E-02	8.0E+02	8.8E+04	4.2E+00	4.1E+00		
5.6E-02	C			1.0E-02	I	6.0E-03	P			-0.32	1	1	Yes	Adiponitrile	111-69-3										
										3.52	1	0.9	Yes	Alachlor	15972-60-8	1.4E+00	4.2E+00		1.0E+00	2.0E+02	6.9E+02		1.6E+02	2.0E+00	
				1.0E-03	I					1.13	1	1	Yes	Aldicarb	116-06-3					2.0E+01	1.4E+03		2.0E+01	3.0E+00	
				1.0E-03	I					-0.57	1	1	Yes	Aldicarb Sulfone	1646-88-4					2.0E+01	2.4E+04		2.0E+01	2.0E+00	
										-0.78	1	1	Yes	Aldicarb sulfoxide	1646-87-3									4.0E+00	
1.7E+01	I	4.9E-03	I	3.0E-05	I			V		6.5	1	1	No	Aldrin	309-00-2	4.6E-03		1.1E-03	9.2E-04	6.0E-01			6.0E-01		
				2.5E-01	I					2.2	1	1	Yes	Allyl	74223-64-6					5.0E+03	2.4E+05		4.9E+03		
				5.0E-03	I	1.0E-04	X	V		0.17	1	1	Yes	Allyl Alcohol	107-18-6					1.0E+02	1.3E+04	2.1E-01	2.1E-01		
2.1E-02	C	6.0E-06	C			1.0E-03	I	V		1.93	1	1	Yes	Allyl Chloride	107-05-1	3.7E+00	3.3E+01	9.4E-01	7.3E-01			2.1E+00	2.1E+00		
				1.0E+00	P	5.0E-03	P				1	1	Yes	Aluminum	7429-90-5					2.0E+04	4.5E+06		2.0E+04		
				4.0E-04	I						1	1	Yes	Aluminum Phosphide	20659-73-8					8.0E+00	1.8E+03		8.0E+00		
				3.0E-04	I					2.31	1	1	Yes	Amidri	67485-29-4					6.0E+00	5.1E+02		5.9E+00		
2.1E+01	C	6.0E-03	C			9.0E-03	I			2.98	1	1	Yes	Amettyn	834-12-8					1.8E+02	9.7E+02		1.5E+02		
										2.86	1	1	Yes	Amidodiphenyl 4-	92-57-1	3.7E-03	1.5E-02		3.0E-03						
				8.0E-02	P					0.21	1	1	Yes	Aminophenol, m-	591-27-5					1.6E+03	2.8E+05		1.6E+03		
				2.0E-02	P					0.04	1	1	Yes	Aminophenol, p-	123-30-8					4.0E+02	9.1E+04		4.0E+02		
				2.5E-03	I					5.5	1	0.9	Yes	Amtraz	33089-61-1					5.0E+01	9.7E+00		8.2E+00		
						1.0E-01	I	V		0.23	1	1	Yes	Ammonia	7664-41-7										
				2.0E-01	I						1	1	Yes	Ammonium Sulfamate	7773-06-0					4.0E+03	9.1E+05		4.0E+03		
						3.0E-03	X	V		0.89	1	1	Yes	Amyl Alcohol, tert	75-85-4							6.3E+00	6.3E+00		
5.7E-03	I	1.6E-06	C	7.0E-03	P	1.0E-03	I			0.9	1	1	Yes	Aniline	62-53-3	1.4E+01	6.6E+02		1.3E+01	1.4E+02	7.7E+03		1.4E+02		
4.0E-02	P			2.0E-03	X					3.39	1	0.9	Yes	Anthraquinone, 9,10-	84-65-1	1.9E+00	4.9E+00		1.4E+00	4.0E+01	1.1E+02		3.0E+01		
				4.0E-04	I					0.15	1	1	Yes	Antimony (metallic)	7440-36-0					8.0E+00	2.7E+02		7.8E+00	6.0E+00	
				5.0E-04	H					0.15	1	1	Yes	Antimony Pentoxide	1314-60-9					1.0E+01	3.4E+02		9.7E+00		
				9.0E-04	H					-7.28	0.15	1	No	Antimony Potassium Tartrate	11071-15-1					1.8E+01			1.8E+01		
				4.0E-04	H					0.15	1	1	Yes	Antimony Tetroxide	1332-81-6					8.0E+00	2.7E+02		7.8E+00		
						2.0E-04	I			0.15	1	1	Yes	Antimony Trioxide	1309-84-4										
2.5E-02	I	7.1E-06	I	1.3E-02	I					3.1	1	0.9	Yes	Apollo	74115-24-5	3.1E+00	2.3E+00		1.3E+00	2.6E+02	2.1E+03		2.3E+02		
				5.0E-02	H					4.82	1	0.8	Yes	Aramite	140-57-8					1.0E+03	8.2E+02		4.5E+02		
1.5E+00	I	4.3E-03	I	3.0E-04	I	1.5E-05	C				1	1	Yes	Arsenic, Inorganic	7440-38-2	5.2E-02	9.3E+00		5.2E-02	6.0E+00	1.4E+03		6.0E+00	1.0E+01	
				3.5E-06	C	5.0E-05	I				1	1	Yes	Arsine	7784-42-1					7.0E-02	1.6E+01		7.0E-02		
				9.0E-03	I					4.28	1	0.9	Yes	Assure	76578-14-8					1.8E+02	3.8E+02		1.2E+02		
				5.0E-02	I					-0.27	1	1	Yes	Asulam	3337-71-1					1.0E+03	8.0E+05		1.0E+03		
2.3E-01	C			3.5E-02	I					2.61	1	1	Yes	Atrazine	1912-24-9	3.4E-01	2.6E+00		3.0E-01	7.0E+02	6.2E+03		6.3E+02	3.0E+00	
8.8E-01	C	2.5E-04	C							2.98	1	0.9	Yes	Auramine	492-80-8	8.9E-02	2.6E-01		6.6E-02						
				4.0E-04	I					4.48	1	1	No	Avermectin B1	65195-55-3					8.0E+00			8.0E+00		
								V		3.82	1	1	Yes	Azobenzene	103-33-3	7.1E-01	7.0E-01	1.8E-01	1.2E-01						
				1.0E+00	P	7.0E-06	P			-1.7	1	1	Yes	Azodicarbonamide	123-77-3					2.0E+04	6.8E+07		2.0E+04		
				2.0E-01	I	5.0E-04	H			0.07	1	1	Yes	Barium	7440-39-3					4.0E+03	6.4E+04		3.8E+03	2.0E+03	
5.0E-01	C	1.5E-01	C	2.0E-02	C	2.0E-04	C		M	0.025	1	1	Yes	Barium Chromate	10294-40-3	5.0E-02	2.3E-01		4.1E-02	4.0E+02	2.3E+03		3.4E+02		
				4.0E-03	I					1.52	1	1	Yes	Baygon	114-26-1					8.0E+01	3.6E+03		7.8E+01		
				3.0E-02	I					2.77	1	1	Yes	Bayleton	43121-43-3					6.0E+02	6.9E+03		5.5E+02		
				2.5E-02	I					5.95	1	0.7	Yes	Baythroid	68359-37-5					5.0E+02	1.6E+02		1.2E+02		
				3.0E-01	I			V		5.29	1	0.8	Yes	Benefin	1861-40-1					6.0E+03	2.4E+03		1.7E+03		
				5.0E-02	I					2.12	1	1	Yes	Benomyl	17804-35-2					1.0E+03	3.0E+04		9.7E+02		
				3.0E-02	I					2.34	1	1	Yes	Bentazon	25057-89-0					6.0E+02	9.4E+03		5.7E+02		
				1.0E-01	I			V		1.48	1	1	Yes	Benzaldehyde	100-52-7					2.0E+03	4.9E+04		1.9E+03		
5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I	V		2.13	1	1	Yes	Benzene	71-43-2	1.4E+00	9.4E+00	7.2E-01	4.5E-01	8.0E+01	6.0E+02	6.3E+01	3.3E+01	5.0E+00	
1.0E-01	X			3.0E-04	X					-3.727	1	1	No	Benzenediamine-2-methyl sulfate, 1,4-	6389-59-1	7.8E-01			7.8E-01	6.0E+00			6.0E+00		
				1.0E-03	P			V		2.52	1	1	Yes	Benzenethiol	108-98-5					2.0E+01	1.0E+02		1.7E+01		
2.3E+02	I	6.7E-02	I	3.0E-03	I				M	1.34	1	1	Yes	Benzidine	92-87-5	1.1E-04	4.8E-03		1.1E-04	6.0E+01	3.0E+03		5.9E+01		

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice); c = cancer; * = where n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																									
Toxicity and Chemical-specific Information														Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1					
SFO (mg/kg-day) ⁻¹	k _e y	IUR (ug/m ³ -1 y)	k _e y	RfD _o (mg/kg-day)	k _e y	RfC _i (mg/m ³)	k _e y	v	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)	
1.3E+01	I			4.0E+00	I				V	1.87 3.9	1 1	1 1	Yes Yes	Benzoic Acid Benzotrachloride	65-85-0 98-07-7	6.0E-03	5.7E-03		2.9E-03	8.0E+04	1.2E+06		7.5E+04		
1.7E-01	I	4.9E-05 2.4E-03	C I	1.0E-01 2.0E-03	P I	1.0E-03 2.0E-05	P I		V	1.1 2.3 0.007	1 1 1	1 1 1	Yes Yes Yes	Benzyl Alcohol Benzyl Chloride Beryllium and compounds	100-51-6 100-44-7 7440-41-7	4.6E-01	3.2E+00	1.1E-01	8.9E-02	2.0E+03 4.0E+01 4.0E+01	8.9E+04 3.2E+02 6.4E+01		2.0E+03 2.0E+00 2.5E+01	4.0E+00	
				1.0E-04 9.0E-03 1.5E-02	I P I					0 4.48 8.15	1 1 1	1 0.9 0	Yes Yes No	Bidrin Bifenox Biphenthrin	141-66-2 42576-02-3 82657-04-3					2.0E+00 1.8E+02 3.0E+02	1.1E+03 2.3E+02		2.0E+00 1.0E+02 3.0E+02		
8.0E-03 7.0E-02	I H	5.0E-05 1.0E-05		5.0E-01 4.0E-02	I I	4.0E-04 3.0E-03	X P	V V		4.01 2.48 1.3	1 1 1	1 1 1	Yes Yes Yes	Biphenyl, 1,1'- Bis(2-chloro-1-methylethyl) ether Bis(2-chloroethoxy)methane	92-52-4 108-60-1 111-91-1	9.7E+00 1.1E+00	6.3E+00 7.9E+00		3.8E+00 3.6E-01	1.0E+04 8.0E+02 6.0E+01	7.3E+03 6.5E+03 3.0E+03	8.3E-01 7.1E+02 5.9E+01			
1.1E+00 2.2E+02	I I	3.3E-04 6.2E-02	I I					V V		1.29 0.57 3.32	1 1 1	1 1 1	Yes Yes Yes	Bis(2-chloroethyl)ether Bis(chloromethyl)ether Bisphenol A	111-44-4 542-88-1 80-05-7	7.1E-02 3.5E-04	2.6E+00 3.2E-02	1.7E-02 9.1E-05	1.4E-02 7.2E-05						
				2.0E-01 2.0E+00 4.0E-02	I P C	2.0E-02 2.0E-02 1.3E-02	H P C		V	1.16 0.22	1 1 1	1 1 1	Yes Yes Yes	Boron And Borates Only Boron Trichloride Boron Trifluoride	7440-42-8 10294-34-5 7637-07-2					4.0E+03 4.0E+04 8.0E+02	9.1E+05 9.1E+06 1.8E+05	4.2E+01 4.2E+01 2.7E+01	4.0E+03 4.2E+01 2.6E+01		
7.0E-01 2.0E+00	I X	6.0E-04 X		4.0E-03	I			V		1.92 2.99	1 1	1 1	Yes Yes	Bromate Bromo-2-chloroethane, 1- Bromobenzene	15541-45-4 107-04-0 108-86-1	1.1E-01 3.9E-02	2.0E+01 5.5E-01	9.4E-03	1.1E-01 7.4E-03	8.0E+01 1.8E+04	1.8E+04		8.0E+01 6.2E+01	1.0E+01	
				8.0E-03	I	6.0E-02	I	V		2.99	1	1	Yes	Bromochloromethane	74-97-5					1.6E+02	5.4E+02	1.3E+02	8.3E+01		
6.2E-02 7.9E-03	I I	3.7E-05 1.1E-06	C I	2.0E-02 2.0E-02	I I			V V		2 2.4	1 1	1 1	Yes Yes	Bromodichloromethane Bromotorm	75-27-4 75-25-2	1.3E+00 9.9E+00	1.8E+01 1.4E+02	1.5E-01 5.1E+00	1.3E-01 3.3E+00	4.0E+02 4.0E+02	6.4E+03 6.2E+03		3.8E+02 3.8E+02	8.0E+01(F) 8.0E+01(F)	
				1.4E-03 5.0E-03 2.0E-02	I H I	5.0E-03 H I	V V			1.19 5.21 3.39	1 1 1	1 0.8 0.9	Yes Yes Yes	Bromomethane Bromophos Bromoxynil	74-83-9 2104-96-3 1689-84-5					2.8E+01 1.0E+02 4.0E+02	1.0E+03 5.5E+01 1.8E+03	1.0E+01	7.5E+00 3.5E+01 3.3E+02		
3.4E+00	C	3.0E-05	I	2.0E-02	I	2.0E-03	I	V		5.4 1.99 0.88	1 1 1	0.8 Yes Yes	Yes	Bromoxynil Octanoate Butadiene, 1,3- Butanol, N-	1689-80-2 106-99-0 71-36-3	2.3E-02	1.6E-01	1.9E-01	1.8E-02	4.0E+02 2.0E+03	2.1E+02 1.0E+05	4.2E+00	1.4E+02 2.0E+03		
1.9E-03	P			1.0E-01	I			V		0.88	1	1	Yes	Butyl Benzyl Phosphate Butyl alcohol, sec- butylate	85-68-7 78-92-2 2008-41-5	4.1E+01	2.6E+01		1.6E+01	4.0E+03 4.0E+04 1.0E+03	2.9E+03 3.0E+06 8.5E+02	6.3E+04	1.7E+03 2.4E+04 4.6E+02		
2.0E-04 3.6E-03	C P	5.7E-08 C		3.0E-01 5.0E-02	P P			V V		3.5 5.1 4.38	1 1 1	1 Yes No	Yes	Butylated hydroxyanisole Butylated hydroxytoluene Butylbenzene, n-	25013-16-5 128-37-0 104-51-8	3.9E+02 2.2E+01	6.2E+02 3.8E+00		2.4E+02 3.3E+00	6.0E+03 1.0E+03	1.2E+03		1.0E+03 1.0E+03		
				1.0E-01 1.0E-01 2.0E-02	X X A		V V			4.57 4.11 0.36	1 1 1	1 Yes Yes	No	Butylbenzene, sec- Butylbenzene, tert- Cacodylic Acid	135-98-8 98-06-6 75-60-5					2.0E+03 2.0E+03 4.0E+02	1.1E+03 6.7E+04		2.0E+03 6.9E+02 4.0E+02		
1.8E-03 5.0E-01	I C	1.0E-03 1.5E-01	I C	1.0E-05 2.0E-02	A C	1.0E-05 2.0E-04	A C		M	0.025 0.025	1 1	1 Yes Yes	Yes	Cadmium (Diet) Cadmium (Water) Calcium Chromate	7440-43-9 7440-43-9 13765-19-0	5.0E-02	2.3E-01		4.1E-02	1.0E+01 4.0E+02	1.1E+02 2.3E+03		9.2E+00 3.4E+02	5.0E+00	
1.5E-01 2.3E-03	C C	4.3E-05 6.6E-07	C C	5.0E-01 2.0E-03 1.3E-01	I I I	2.2E-03 I I	C			-0.19 3.8 2.8	1 1 1	1 0.9 Yes	Yes	Caprolactam Captafol Captan	105-60-2 2425-06-1 133-06-2	5.2E-01 3.4E+01	1.7E+00 3.4E+02		4.0E-01 3.1E+01	1.0E+04 4.0E+01 2.6E+03	9.0E+05 1.5E+02 3.0E+04		9.9E+03 3.2E+01 2.4E+03		
				1.0E-01 5.0E-03 1.0E-01	I I I	7.0E-04 I I	V			2.36 2.32 1.94	1 1 1	1 Yes Yes	Yes	Carbaryl Carbofuran Carbon Disulfide	83-25-2 1563-66-2 75-15-0					2.0E+03 1.0E+02 2.0E+03	2.4E+04 1.4E+03 2.0E+04	1.5E+03	1.8E+03 9.4E+01 8.1E+02	4.0E+01	
7.0E-02	I	6.0E-06	I	4.0E-03 1.0E-02 1.0E-01	I I I	1.0E-01 I I	V			2.83 3.81 2.14	1 1 1	1 0.8 Yes	Yes	Carbon Tetrachloride Carbosulfan Carboxin	56-23-5 55285-14-8 5234-68-4	1.1E+00	4.2E+00	9.4E-01	4.5E-01	8.0E+01 2.0E+02 2.0E+03	3.4E+02 6.9E+01 4.1E+04	2.1E+02	4.9E+01 5.1E+01 1.9E+03	5.0E+00	
				1.0E-01 1.5E-02	I I		V			0.99 1.9	1 1	1 Yes Yes	Yes	Ceric oxide Chloral Hydrate Chloramben	1306-38-3 302-17-0 133-90-4					2.0E+03 3.0E+02	1.5E+05 7.4E+03		2.0E+03 2.9E+02		
4.0E-01 3.5E-01 1.0E+01	H I I	1.0E-04 4.6E-03	I C	5.0E-04 3.0E-04	I I	7.0E-04 3.0E-04	I I	V		2.22 6.26 5.41	1 1 1	1 0.7 0.8	Yes No Yes	Chloranil Chlordane Chlordecone (Kepone)	118-75-2 12789-03-6 143-50-0	1.9E-01 2.2E-01 7.8E-03	3.4E+00	5.6E-02	1.8E-01 4.5E-02 3.5E-03	1.0E+01 6.0E+00	5.4E+00	1.5E+00	1.3E+00 2.9E+00	2.0E+00	
				7.0E-04 2.0E-02 1.0E-01	A I I		V			3.81 2.5 0.85	1 1 1	0.9 Yes Yes	Yes	Chlorfenirphos Chlorimuron, Ethyl- Chlorine	470-90-6 90982-32-4 7782-50-5					1.4E+01 4.0E+02 2.0E+03	5.6E+01 1.5E+04 4.5E+05	3.0E-01	1.1E+01 3.9E+02 3.0E-01		
				3.0E-02 3.0E-02	I I	2.0E-04 I	V				1 1	1 Yes Yes	Yes	Chlorine Dioxide Chlorite (Sodium Salt)	10049-04-4 7758-19-2					6.0E+02 6.0E+02	1.4E+05 1.4E+05	4.2E-01	4.2E-01 6.0E+02	1.0E+03	
				5.0E+01	I	V				2.05	1	1	Yes	Chloro-1,1-difluoroethane, 1- Chloro-1,3-butadiene, 2- Chloro-2-methylaniline HCl, 4-	75-68-3 126-99-8 3165-93-3			1.9E-02	1.9E-02 1.7E-01	4.0E+02	1.8E+03 4.2E+01		3.7E+01		

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SFO (mg/kg-day) ⁻¹	k e y	IUR (ug/m ³) ⁻¹	k e y	RfD _o (mg/kg-day)	k e y	RfC _o (mg/m ³)	k e y	v o l a t i l e	m u t a g e n	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)											
1.0E-01	P	7.7E-05	C	3.0E-03	X					2.27	1	1	Yes	Chloro-2-methylaniline, 4-	95-69-2	7.8E-01	6.4E+00		6.9E-01	6.0E+01	5.5E+02		5.4E+01												
2.7E-01	X			2.0E-03	H					0.09	1	1	Yes	Chloroacetaldehyde, 2-	107-20-0	2.9E-01	4.4E+01		2.9E-01	4.0E+01	6.3E+03		4.0E+01	6.0E+01											
						3.0E-05	I			0.22	1	1	Yes	Chloroacetic Acid	79-11-8																				
										1.93	1	1	Yes	Chloroacetophenone, 2-	532-27-4																				
2.0E-01	P			4.0E-03	I					1.83	1	1	Yes	Chloroaniline, p-	106-47-8	3.9E-01	5.7E+00		3.6E-01	8.0E+01	1.3E+03		7.6E+01												
1.1E-01	C	3.1E-05	C	2.0E-02	I	5.0E-02	P	V		2.84	1	1	Yes	Chlorobenzene	108-90-7					4.0E+02	1.3E+03	1.0E+02	7.8E+01	1.0E+02											
				2.0E-02	I					4.74	1	0.8	Yes	Chlorobenzilate	510-15-6	7.1E-01	5.4E-01		3.1E-01	4.0E+02	3.5E+02		1.9E+02												
				3.0E-02	X					2.65	1	1	Yes	Chlorobenzoic Acid, p-	74-11-3					6.0E+02	3.4E+03		5.1E+02												
				3.0E-03	P	3.0E-01	P	V		3.6	1	1	Yes	Chlorobenzotrifluoride, 4-	98-56-6					6.0E+01	9.3E+01	6.3E+02	3.5E+01												
				4.0E-02	P					2.64	1	1	Yes	Chlorobutane, 1-	109-69-3					8.0E+02	3.0E+03		6.4E+02												
				5.0E+01	I	V				1.08	1	1	Yes	Chlorodifluoromethane	75-45-6							1.0E+05	1.0E+05												
3.1E-02	C	2.3E-05	I	2.0E-02	P					0.03	1	1	Yes	Chloroethanol, 2-	107-07-3	2.5E+00	2.8E+01	2.4E-01	2.2E-01	4.0E+02	7.7E+04		4.0E+02												
				1.0E-02	I	9.8E-02	A	V		1.97	1	1	Yes	Chloroform	67-66-3					2.0E+02	2.5E+03	2.0E+02	9.7E+01	8.0E+01(F)											
				9.0E-02	I	V				0.91	1	1	Yes	Chloromethane	74-87-3							1.9E+02	1.9E+02												
2.4E+00	C	6.9E-04	C	3.0E-03	P	1.0E-05	X			0.32	1	1	Yes	Chloromethyl Methyl Ether	107-30-2	3.2E-02	3.5E+00	8.1E-03	6.5E-03	6.0E+01	6.4E+02		5.5E+01												
3.0E-01	P									2.24	1	1	Yes	Chloronitrobenzene, o-	88-73-3	2.6E-01	2.5E+00		2.3E-01																
6.3E-03	P			1.0E-03	P	6.0E-04	P			2.39	1	1	Yes	Chloronitrobenzene, p-	100-00-5	1.2E+01	9.3E+01		1.1E+01	2.0E+01	1.7E+02		1.8E+01												
				5.0E-03	I					2.15	1	1	Yes	Chlorophenol, 2-	95-57-8					1.0E+02	1.0E+03		9.1E+01												
				4.0E-04	C	V				2.09	1	1	Yes	Chloropiridin	76-06-2							8.3E-01	8.3E-01												
3.1E-03	C	8.9E-07	C	1.5E-02	I					3.05	1	0.9	Yes	Chlorothaloni	1897-45-6	2.5E+01	1.5E+02		2.2E+01	3.0E+02	2.1E+03		2.6E+02												
				2.0E-02	I					3.42	1	1	Yes	Chlorotoluene, o-	95-49-8					4.0E+02	5.8E+02		2.4E+02												
				2.0E-02	X					3.33	1	1	Yes	Chlorotoluene, p-	106-43-4					4.0E+02	6.6E+02		2.5E+02												
2.4E+02	C	6.9E-02	C							-1.02	1	1	Yes	Chlorozotocin	54749-90-5	3.2E-04	7.1E-01		3.2E-04																
				2.0E-01	I					3.51	1	0.9	Yes	Chlorpropham	101-21-3					4.0E+03	9.8E+03		2.8E+03												
				1.0E-03	A					4.96	1	0.8	Yes	Chlorpyrifos	2921-88-2					2.0E+01	1.5E+01		8.4E+00												
				1.0E-02	H					4.31	1	0.9	Yes	Chlorpyrifos Methyl	5598-13-0					2.0E+02	2.9E+02		1.2E+02												
				5.0E-02	I					2	1	1	Yes	Chlorosulfuron	64902-72-3					1.0E+03	5.7E+04		9.9E+02												
				8.0E-04	H					5.8	1	0.8	Yes	Chlorthophos	60238-56-4					1.6E+01	3.4E+00		2.8E+00												
5.0E-01	J	8.4E-02	S	1.5E+00	I					0.013	1	1	Yes	Chromium(III) (Soluble Salts)	16663-83-1	5.0E-02	1.1E-01		3.5E-02	3.0E+04	8.9E+04		2.2E+04												
				3.0E-03	I	1.0E-04	I		M	0.025	1	1	Yes	Chromium(VI)	18540-29-9					6.0E+01	1.7E+02		4.4E+01	1.0E+02											
										0.013	1	1	Yes	Chromium, Total	7440-47-3																				
				9.0E-03	P	3.0E-04	P	6.0E-06	P		1	1	Yes	Cobalt	7440-48-4					6.0E+00	3.4E+03		6.0E+00												
				6.2E-04	I						1	0	Yes	Coke Oven Emissions	8007-45-2																				
				4.0E-02	H						1	1	Yes	Copper	7440-50-8					8.0E+02	1.8E+05		8.0E+02	1.3E+03											
				5.0E-02	I	6.0E-01	C			1.96	1	1	Yes	Cresol, m-	108-39-4					1.0E+03	1.2E+04		9.3E+02												
				5.0E-02	I	6.0E-01	C			1.95	1	1	Yes	Cresol, o-	95-48-7					1.0E+03	1.2E+04		9.3E+02												
				1.0E-01	A	6.0E-01	C			1.94	1	1	Yes	Cresol, p-	106-44-5					2.0E+03	2.5E+04		1.9E+03												
1.9E+00	H			1.0E-01	A					3.1	1	1	Yes	Cresol, p-chloro-m-	99-50-7	4.1E-02	2.6E+00		4.0E-02	2.0E+03	5.2E+03		1.4E+03												
				1.0E-01	A	6.0E-01	C			1.95	1	1	Yes	Cresols	1319-77-3					2.0E+03	2.4E+04		1.9E+03												
				1.0E-03	P					0.6	1	1	Yes	Crutonaldehyde, trans-	123-73-9					2.0E+01	1.5E+03		2.0E+01												
2.2E-01	C	6.3E-05	C	1.0E-01	I	4.0E-01	I	V		3.66	1	1	Yes	Cumene	98-82-8					2.0E+03	1.9E+03	8.3E+02	4.5E+02												
8.4E-01	H			2.0E-03	H					-3.16	1	1	No	Cupferron	135-20-6	3.5E-01			3.5E-01	4.0E+01	7.5E+02		3.8E+01												
				2.0E-03	H					2.22	1	1	Yes	Cyanazine	21725-46-2	9.3E-02	1.5E+00		8.7E-02																
				1.0E-03	I						1	1	Yes	Cyanides																					
				5.0E-03	I						1	1	Yes	~Calcium Cyanide	592-01-8					2.0E+01	4.5E+03		2.0E+01												
											1	1	Yes	~Copper Cyanide	544-92-3					1.0E+02	2.3E+04		1.0E+02												
				6.0E-04	I	8.0E-04	S	V			1	1	Yes	~Cyanide (CN-)	57-12-5					1.2E+01	2.7E+03	1.7E+00	1.5E+00	2.0E+02											
				1.0E-03	I					0.07	1	1	Yes	~Cyanogen	460-19-5					2.0E+01	5.1E+03		2.0E+01												
				9.0E-02	I						1	1	Yes	~Cyanogen Bromide	506-68-3					1.8E+03	1.6E+06		1.8E+03												
				5.0E-02	I						1	1	Yes	~Cyanogen Chloride	506-77-4					1.0E+03	5.8E+05		1.0E+03												
				6.0E-04	I	8.0E-04	I	V		-0.25	1	1	Yes	~Hydrogen Cyanide	74-90-8					1.2E+01	2.7E+03	1.7E+00	1.5E+00												
				2.0E-03	I						1	1	Yes	~Potassium Cyanide	151-50-8					4.0E+01	4.5E+03		4.0E+01												
				5.0E-03	I					0.04	1	1	Yes	~Potassium Silver Cyanide	506-61-6					1.0E+02	4.5E+02		8.2E+01												
				1.0E-01	I					0.04	1	1	Yes	~Silver Cyanide	506-64-9					2.0E+03	1.8E+04		1.8E+03												
				1.0E-03	I						1	1	Yes	~Sodium Cyanide	143-33-9					2.0E+01	4.5E+03		2.0E+01	2.0E+02											
				2.0E-04	P						1	0	Yes	~Thiocyanates	NA					4.0E+00	9.1E+02		4.0E+00												
				2.0E-04	X					0.58	1	1	Yes	~Thiocyanic Acid	463-56-9					4.0E+00	9.1E+02		4.0E+00												
				5.0E-02	I						1	1	Yes	~Zinc Cyanide	557-21-1					1.0E+03	3.8E+05		1.0E+03												
2.3E-02	H			6.0E+00	I	V				3.44	1	1	Yes	Cyclohexane	110-82-7	3.4E+00	8.0E+00		2.4E+00			1.3E+04	1.3E+04												
				5.0E+00	I	7.0E-01	P	V		4.72	1	0.9	Yes	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3					1.0E+05	6.5E+06	1.5E+03	1.4E+03												
										0.81	1	1	Yes	Cyclohexanone	108-94-1																				
				5.0E-03	P	1.0E+00	X	V		2.86	1	1	Yes	Cyclohexene	110-83-8					1.0E+02	2.5E+02	2.1E+03	7.0E+01												
				2.0E-01	I					1.49	1	1	Yes	Cyclohexylamine	108-91-8					4.0E+03	9.2E+04		3.8E+03												
				5.0E-03	I					6.9	1	0.5	No	Cyhalothrin/karate	68085-85-8					1.0E+02			1.0E+02												

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice); c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																								
Toxicity and Chemical-specific Information													Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1					
SFO (mg/kg-day) ⁻¹	k _e y	IUR (ug/m ³ -y)	k _e y	RfD _o (mg/kg-day)	k _e y	RfC _o (mg/m ³)	k _e y	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)	
2.4E-01	I	6.9E-05	C	1.0E-02 7.5E-03	I				6.6 0.96 6.02	1 1 1	0.7 1 0.8	No Yes Yes	Cypermethrin Cyromazine DDD	52315-07-8 66215-27-8 72-54-8	3.2E-01	3.4E-02		3.1E-02	2.0E+02 1.5E+02		1.2E+04		2.0E+02 1.5E+02	
3.4E-01	I	9.7E-05	C					V	6.51	1	0.8	No	DDE, p,p'-	72-55-9	2.3E-01		5.8E-02	4.6E-02						
3.4E-01	I	9.7E-05	I	5.0E-04 1.0E-02	I				6.91 4.28	1 1	0.7 0.9	No Yes	DDT Dacthal	50-29-3 1861-32-1	2.3E-01			2.3E-01	1.0E+01 2.0E+02		3.2E+02		1.0E+01 1.2E+02	
7.0E-04	I			3.0E-02 7.0E-03 4.0E-05	I				0.78 12.11 3.21	1 1 1	1 0 0.9	Yes No Yes	Dalapon Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209) Demeton	75-99-0 1163-19-5 8065-48-3	1.1E+02			1.1E+02	6.0E+02 1.4E+02 8.0E-01	5.5E+04		6.0E+02 1.4E+02 6.7E-01	2.0E+02	
1.2E-03	I			6.0E-01	I				8.12	1	0	No	Di(2-ethylhexyl)adipate	103-23-1	6.5E+01			6.5E+01	1.2E+04			1.2E+04	4.0E+02	
6.1E-02	H								4.49 3.81	1 1	0.9 0.9	Yes Yes	Diallate Diazinon	2303-16-4 333-41-5	1.3E+00	8.9E-01		5.2E-01	1.4E+01	3.9E+01		1.0E+01		
8.0E-01	P	6.0E-03	P	1.0E-02 2.0E-04 4.0E-04	X P X	V 2.0E-04 V			4.38 2.96 3.75	1 1 1	1 1 0.9	Yes Yes Yes	Dibenzothiophene Dibromo-3-chloropropane, 1,2- Dibromobenzene, 1,3-	132-65-0 96-12-8 108-36-1	3.1E-02	1.6E-01	3.4E-04	3.3E-04	2.0E+02 4.0E+00 8.0E+00	9.6E+01 2.4E+01 1.6E+01	4.2E-01	6.5E+01 3.7E-01 5.3E+00	2.0E-01	
8.4E-02	I	2.7E-05	C	1.0E-02 2.0E-02	I I	V I			3.79 2.16	1 1	0.9 1	Yes Yes	Dibromobenzene, 1,4- Dibromochloromethane Dibromoethane, 1,2-	106-37-6 124-48-1 106-93-4	9.3E-01 3.9E-02	1.4E+01 6.9E-01	2.1E-01 9.4E-03	1.7E-01 7.5E-03	2.0E+02 4.0E+02 1.8E+02	3.7E+02 6.7E+03 3.6E+03	1.9E+01	1.3E+02 3.8E+02 1.7E+01	8.0E+01(F) 5.0E-02	
2.0E+00	I	6.0E-04	I	9.0E-03	I	V			1.96	1	1	Yes	Dibromomethane (Methylene Bromide)	74-95-3					2.0E+02	5.4E+03	8.3E+00	8.0E+00		
				3.0E-04 3.0E-02	I				2.21	1	1	Yes	Dibutyltin Compounds Dicamba	NA 1918-00-9					6.0E+00 6.0E+02	1.0E+04		6.0E+00 5.7E+02		
		4.2E-03	P					V	2.6	1	1	Yes	Dichloro-2-butene, 1,4-	764-41-0			1.3E-03	1.3E-03						
		4.2E-03	P					V	2.6	1	1	Yes	Dichloro-2-butene, cis-1,4-	1476-11-5			1.3E-03	1.3E-03						
		4.2E-03	P					V	2.6	1	1	Yes	Dichloro-2-butene, trans-1,4-	110-57-6			1.3E-03	1.3E-03						
5.0E-02	I			4.0E-03	I				0.92	1	1	Yes	Dichloroacetic Acid	79-43-6	1.6E+00	9.2E+01		1.5E+00	8.0E+01	5.4E+03		7.9E+01	6.0E+01	
5.4E-03	C	1.1E-05	C	9.0E-02 7.0E-02	I A	2.0E-01 8.0E-01	H I	V V	3.43 3.44	1 1	1 1	Yes Yes	Dichlorobenzene, 1,2- Dichlorobenzene, 1,4-	95-50-1 106-46-7	1.4E+01	2.0E+01	5.1E-01	4.8E-01	1.8E+03 1.4E+03	2.9E+03 2.2E+03	4.2E+02 1.7E+03	3.0E+02 5.7E+02	6.0E+02 7.5E+01	
4.5E-01	I	3.4E-04	C	1.0E-02 9.0E-03 2.0E-01	I X I	1.0E-01 X	V V		3.51 4.44 2.16	1 1 1	1 0.9 1	Yes Yes Yes	Dichlorobenzene, 3,3'- Dichlorobenzophenone, 4,4'- Dichlorodifluoromethane	91-94-1 90-98-2 75-71-9	1.7E-01	4.3E-01		1.2E-01	1.8E+02 4.0E+03	1.4E+02 3.8E+04	2.1E+02	7.8E+01 2.0E+02		
5.7E-03	C	1.6E-06	C	2.0E-01	P		V		1.79	1	1	Yes	Dichloroethane, 1,1-	78-34-3	1.4E+01	1.8E+02	3.5E+00	2.7E+00	4.0E+03	5.8E+04		3.8E+03		
9.1E-02	I	2.6E-05	I	6.0E-03 5.0E-02	X I	7.0E-03 2.0E-01	P I	V V	1.48 2.13	1 1	1 1	Yes Yes	Dichloroethane, 1,2- Dichloroethylene, 1,1-	107-06-2 75-35-4	8.6E-01	1.8E+01	2.2E-01	1.7E-01	1.2E+02 1.0E+03	2.8E+03 8.5E+03	1.5E+01 4.2E+02	1.3E+01 2.8E+02	5.0E+00 7.0E+00	
				2.0E-03 2.0E-02 3.0E-03	I I I		V V I		1.86 2.09 3.06	1 1 1	1 1 1	Yes Yes Yes	Dichloroethylene, 1,2-cis- Dichloroethylene, 1,2-trans- Dichlorophenol, 2,4-	156-59-2 156-60-5 120-83-2					4.0E+01 4.0E+02 6.0E+01	3.6E+02 3.6E+03 1.9E+02		3.6E+01 3.6E+02 4.6E+01	7.0E+01 1.0E+02	
				1.0E-02 8.0E-03 9.0E-02	I I A				2.81 3.53 1.98	1 1 1	1 0.9 1	Yes Yes Yes	Dichlorophenoxy Acetic Acid, 2,4- Dichlorophenoxybutyric Acid, 4-(2,4- Dichloropropene, 1,2-	94-75-7 94-82-6 78-87-5	2.2E+00	2.3E+01	5.6E-01	4.4E-01	2.0E+02 1.6E+02 1.8E+03	1.3E+03 4.8E+02 2.1E+04	8.3E+00	1.7E+02 1.2E+02 8.3E+00	7.0E+01 5.0E+00	
				2.0E-02 3.0E-03 3.0E-02	P I I		V V I		2 0.78 2.04	1 1 1	1 1 1	Yes Yes Yes	Dichloropropane, 1,3- Dichloropropanol, 2,3- Dichloropropene, 1,3-	142-28-9 616-23-9 542-75-6					4.0E+02 6.0E+01 6.0E+02	4.6E+03 4.9E+03 6.5E+03		3.7E+02 5.9E+01 3.9E+01		
2.9E-01	I	8.3E-05	C	5.0E-04	I	5.0E-04	I		1.43	1	1	Yes	Dichlorvos	62-73-7	2.7E-01	1.3E+01		2.6E-01	1.0E+01	5.6E+02		9.9E+00		
1.6E+01	I	4.6E-03	I	8.0E-02 5.0E-05	P I	3.0E-04 X	V V		3.51 5.4	1 1	1 0.8	Yes Yes	Dicyclopentadiene Dieldrin	77-73-6 60-57-1	4.9E-03	2.6E-03		1.7E-03	1.6E+03 1.0E+00	3.5E+03 6.1E-01	6.3E-01	6.3E-01 3.8E-01		
		3.0E-04	C			5.0E-03	I			1	0		Diesel Engine Exhaust	NA					4.0E+01	8.4E+04		4.0E+01		
				2.0E-03 3.0E-02	P P	2.0E-04 P	P P		-1.43 0.56	1 1	1 1	Yes Yes	Diethanolamine Diethylene Glycol Monobutyl Ether	111-42-2 112-34-5					6.0E+02	8.6E+04		6.0E+02		
				6.0E-02 1.0E-03	P P	3.0E-04 V	P V		-0.54 0.05	1 1	1 1	Yes Yes	Diethylene Glycol Monoethyl Ether Diethylformamide Diethylstilbestrol	111-90-0 617-84-5 56-53-1	2.2E-04	6.3E-05		4.9E-05	1.2E+03 2.0E+01	7.8E+05 4.2E+03		1.2E+03 2.0E+01		
				8.0E-02 2.0E-02	I I				0.65 3.88 0.75	1 1 1	1 0.9 1	Yes Yes Yes	Difenoquat Diffubenzuron Diffuoroethane, 1,1-	43222-48-6 35367-38-5 75-37-6					1.6E+03 4.0E+02	7.3E+05 1.0E+03		1.6E+03 2.9E+02 8.3E+04		
4.4E-02	C	1.3E-05	C				V		3.38	1	1	Yes	Dihydrosafrole	94-58-6	1.8E+00	2.2E+00	4.3E-01	3.0E-01			1.5E+03	1.5E+03		
				8.0E-02	I	7.0E-01	P	V	1.52	1	1	Yes	Diisopropyl Ether	108-20-3								1.6E+03		
							V		1.03	1	1	Yes	Diisopropyl Methylphosphonate	1445-75-6								1.6E+03		
1.6E+00	P			2.0E-02 2.0E-04	I I				-0.17 0.78 1.81	1 1 1	1 1 1	Yes Yes Yes	Dimethipin Dimethoate Dimethoxybenzidine, 3,3'-	55290-64-7 60-51-5 119-90-4	4.9E-02	1.6E+00		4.7E-02	4.0E+02 4.0E+00	2.4E+05 6.4E+02		4.0E+02 4.0E+00		
1.7E-03	P			6.0E-02	P				-0.61	1	1	Yes	Dimethyl methylphosphonate	756-79-6	4.6E+01	2.7E+04		4.6E+01	1.2E+03	8.1E+05		1.2E+03		
4.6E+00	C	1.3E-03	C						4.58	1	1	Yes	Dimethylamino azobenzene [p-]	60-11-7	1.7E-02	6.9E-03		4.9E-03						
5.8E-01	H								-1.51	1	1	Yes	Dimethylaniline HCl, 2,4-	21436-96-4	1.3E-01	4.0E+02		1.3E-01						
2.0E-01	P			2.0E-03	X				1.68	1	1	Yes	Dimethylaniline, 2,4-	95-68-1	3.9E-01	6.8E+00		3.7E-01	4.0E+01	8.0E+02		3.8E+01		

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice); c = cancer; * = where n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																								
Toxicity and Chemical-specific Information														Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1				
SFO (mg/kg-day) ⁻¹	k _e y	IUR (ug/m ³ -1 y)	k _e y	RfD _o (mg/kg-day)	k _e y	RfC _i (mg/m ³)	k _e y	v	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)
1.1E+01	P			2.0E-03	I			V		2.31 2.34	1 1	1 1	Yes Yes	Dimethylaniline, N,N-Dimethylbenzidine, 3,3'-	121-69-7 119-93-7	7.1E-03	8.2E-02		6.5E-03	4.0E+01	3.0E+02		3.5E+01	
5.5E+02	C	1.6E-01	C	1.0E-01 1.0E-04	P X	3.0E-02 2.0E-06	I X	V V		-1.01 -1.19 -0.54	1 1 1	1 1 1	Yes Yes Yes	Dimethylformamide Dimethylhydrazine, 1,1-Dimethylhydrazine, 1,2-	68-12-2 57-14-7 540-73-8	1.4E-04	4.8E-02	3.5E-05	2.8E-05	2.0E+03 2.0E+00	1.8E+06 3.5E+03	6.3E+01 4.2E-03	6.1E+01 4.2E-03	
4.5E-02	C	1.3E-05	C	2.0E-02 6.0E-04 1.0E-03	I I I					2.3 2.36 2.23	1 1 1	1 1 1	Yes Yes Yes	Dimethylphenol, 2,4-Dimethylphenol, 2,6-Dimethylphenol, 3,4-	105-67-9 576-26-1 95-65-8					4.0E+02 1.2E+01 2.0E+01	3.1E+03 8.5E+01 1.7E+02		3.6E+02 1.1E+01 1.8E+01	
				8.0E-05 2.0E-03	X I					2.58 2.13 4.12	1 1 1	1 1 0.9	Yes Yes Yes	Dimethylvinylchloride Dinitro-o-cresol, 4,6-Dinitro-o-cyclohexyl Phenol, 4,6-	513-37-1 534-52-1 131-89-5	1.7E+00	6.3E+00	4.3E-01	3.3E-01	1.6E+00 4.0E+01	2.6E+01 5.4E+01		1.5E+00 2.3E+01	
				1.0E-04 1.0E-04 1.0E-04	P I P					1.69 1.49 1.46	1 1 1	1 1 1	Yes Yes Yes	Dinitrobenzene, 1,2-Dinitrobenzene, 1,3-Dinitrobenzene, 1,4-	528-29-0 99-65-0 100-25-4					2.0E+00 2.0E+00 2.0E+00	5.3E+01 7.2E+01 7.5E+01		1.9E+00 2.0E+00 2.0E+00	
6.8E-01 3.1E-01	I C			2.0E-03	I					1.67 2.18 1.98	1 1 1	1 1 1	Yes Yes Yes	Dinitrophenol, 2,4-Dinitrotoluene Mixture, 2,4/2,6-Dinitrotoluene, 2,4-	51-28-5 NA 121-14-2	1.1E-01 2.5E-01	1.4E+00 4.1E+00		1.1E-01 2.4E-01	4.0E+01	1.2E+03		3.9E+01	
1.5E+00	P			3.0E-04 2.0E-03 2.0E-03	X S S					2.1 1.84 1.84	1 1 1	1 1 1	Yes Yes Yes	Dinitrotoluene, 2,6-Dinitrotoluene, 2-Amino-4,6-Dinitrotoluene, 4-Amino-2,6-	606-20-2 35572-78-2 19406-51-0	5.2E-02	7.1E-01		4.8E-02	6.0E+00 4.0E+01 4.0E+01	9.3E+01 1.0E+03 1.0E+03		5.7E+00 3.9E+01 3.9E+01	
4.5E-01	X			9.0E-04 1.0E-03	X I					2.18 3.56	1 1	1 0.9	Yes Yes	Dinitrotoluene, Technical grade Dinoseb	25321-14-6 88-85-7	1.7E-01	2.1E+00		1.6E-01	1.8E+01 2.0E+01	2.5E+02 5.4E+01		1.7E+01 1.5E+01	7.0E+00
1.0E-01	I	5.0E-06	I	3.0E-02	I	3.0E-02	I	V		-0.27	1	1	Yes	Uloxane, 1,4-Dioxins	123-91-1 NA 1746-01-6	/ 8E-01	2.2E+02	1.1E+00	4.6E-01	6.0E+02	1.9E+05	6.3E+01	5.7E+01	
6.2E+03 1.3E+05	I C	1.3E+00 3.8E+01	I C	7.0E-10	I	4.0E-08	C	V		8.21 6.8	1 1	0 0.5	No No	~Hexachlorodibenzo-p-dioxin, Mixture ~TCDD, 2,3,7,8-	NA 1746-01-6	1.3E-05 6.0E-07			1.3E-05 1.2E-07	1.4E-05		8.3E-05	1.2E-05	3.0E-05
				3.0E-02 8.0E-04 2.5E-02	I X I					2.86 2.4 3.5	1 1 1	1 1 1	Yes Yes Yes	Diphenamid Diphenyl Sulfone Diphenylamine	967-54-7 127-63-9 122-39-4					6.0E+02 1.6E+01 5.0E+02	4.2E+03 2.0E+02 8.4E+02		5.3E+02 1.5E+01 3.1E+02	
8.0E-01	I	2.2E-04	I	2.2E-03	I					2.94 -2.82 4.9	1 1 1	1 1 1	Yes No No	Diphenylhydrazine, 1,2-Diphenylhydrazine, 1,2-Diquat	122-66-7 85-00-7 1931-37-1	9.7E-02	3.7E-01		7.7E-02	4.4E+01		4.4E+01	2.0E+01	
7.4E+00 6.7E+00	C C	1.4E-01 1.4E-01	C C	4.0E-05	I					-2.03 -6.53 4.02	1 1 1	1 1 0.9	No No Yes	Direct Blue 6 Direct Brown 95 Disulfoton	2602-46-2 16071-86-6 298-04-4	1.1E-02 1.2E-02			1.1E-02 1.2E-02			8.0E-01 1.3E+00	5.0E-01	
				1.0E-02 2.0E-03 4.0E-03	I I I			V		0.77 2.68 1.15	1 1 1	1 1 1	Yes Yes Yes	Dithiane, 1,4-Diuron Dodine	505-29-3 330-54-1 2439-10-3					2.0E+02 4.0E+01 8.0E+01	1.6E+04 3.6E+02 1.1E+04		2.0E+02 3.6E+01 8.0E+01	
				2.5E-02 6.0E-03 2.0E-02	I I I			V		3.21 3.83 1.91	1 1 1	1 0.9 1	Yes Yes Yes	EPTC Endosulfan Endothall	758-94-4 115-29-7 145-73-3					5.0E+02 1.2E+02 4.0E+02	1.5E+03 6.3E+02 8.5E+03		3.8E+02 1.0E+02 3.8E+02	1.0E+02
9.9E-03	I	1.2E-06	I	6.0E-03	P	1.0E-03	I	V		5.2 0.45 0.86	1 1 1	0.8 1 1	Yes Yes Yes	Endrin Epichlorohydrin Epoxybutane, 1,2-	72-20-8 106-89-8 106-88-7	7.9E+00	7.5E+02	4.7E+00	2.9E+00	6.0E+00 1.2E+02	3.7E+00 1.3E+04	2.1E+00 4.2E+01	2.3E+00 2.0E+00 4.2E+01	2.0E+00
				5.0E-03 5.0E-04 1.0E-01	I I P					-0.22 5.07 0.59	1 1 1	1 0.8 1	Yes Yes Yes	Ethephon Ethion Ethoxyethanol Acetate, 2-	16672-87-0 563-12-2 111-15-9					1.0E+02 1.0E+01 2.0E+03	4.2E+04 7.7E+00 2.3E+05		1.0E+02 4.3E+00 1.2E+02	
4.8E-02	H			9.0E-02 9.0E-01 5.0E-03	P I P	2.0E-01 7.0E-02 8.0E-03	I P P	V V V		-0.32 0.73 1.32	1 1 1	1 1 1	Yes Yes Yes	Ethoxyethanol, 2-Ethyl Acetate Ethyl Acetate Ethyl Acrylate	110-80-5 141-78-6 140-88-5	1.6E+00	4.3E+01		1.6E+00	1.8E+03 1.8E+04 1.0E+02	6.2E+05 1.2E+06 3.0E+03	4.2E+02 1.5E+02 1.7E+01	3.4E+02 1.4E+02 1.4E+01	
				2.0E-01 9.0E-02	I H	1.0E+01 3.0E-01	I P	V V		1.43 0.89 1.94	1 1 1	1 1 1	Yes Yes Yes	Ethyl Chloride (Chloroethane) Ethyl Ether Ethyl Methacrylate	75-00-3 60-29-7 97-63-2					4.0E+03 1.8E+03	2.0E+05 2.3E+04	2.1E+04 6.3E+02	2.1E+04 3.9E+03 4.6E+02	
1.1E-02	C	2.5E-06	C	1.0E-05 1.0E-01 7.0E-02	I I P	1.0E+00 1.0E+00	I I	V V		4.78 3.15 -0.94	1 1 1	0.8 1 1	Yes Yes Yes	Ethyl-p-nitrophenyl Phosphonate Ethylbenzene Ethylene Cyanohydrin	2104-64-5 100-41-4 109-78-4	7.1E+00	1.2E+01	2.2E+00	1.5E+00	2.0E-01 2.0E+03 1.4E+03	1.6E-01 3.8E+03 1.1E+06		8.9E-02 8.1E+02 1.4E+03	7.0E+02
				9.0E-02 2.0E+00 1.0E-01	P I I			V		-2.04 -1.36 0.83	1 1 1	1 1 1	No Yes Yes	Ethylene Diamine Ethylene Glycol Ethylene Glycol Monobutyl Ether	107-15-3 107-21-1 111-76-2					1.8E+03 4.0E+04 2.0E+03			1.8E+03 4.0E+04 2.0E+03	
3.1E-01 4.5E-02 6.5E+01	C C C	8.8E-05 1.3E-05 1.9E-02	C C C	8.0E-05	I	3.0E-02	C	V		-0.3 -0.66 -0.28	1 1 1	1 1 1	Yes Yes Yes	Ethylene Oxide Ethylene Thiourea Ethyleneimine	75-21-8 96-45-7 151-56-4	2.5E-01 1.7E+00 1.2E-03	5.2E+01 9.7E+02 2.4E-01	6.4E-02	5.1E-02 1.7E+00 2.4E-04	1.6E+00	1.0E+03	6.3E+01	6.3E+01 1.6E+00	
				3.0E+00 8.0E-03	I I					2.19 2.55	1 1	1 1	Yes Yes	Ethylphthalyl Ethyl Glycolate Express	84-72-0 101200-48-0					6.0E+04 1.6E+02	1.5E+06 5.0E+03		5.8E+04 1.6E+02	

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Toxicity and Chemical-specific Information														Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHLD Hazard Index (HI) = 1					
SFO (mg/kg-day) ⁻¹	k _e y	IUR (ug/m ³ -y) ⁻¹	k _e y	RfD ₀ (mg/kg-day)	k _e y	RfC ₁ (mg/m ³)	k _e y	v _o c	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)	
2.5E-04	I									3.23	1	0.9	Yes	Fenamiphos	22224-92-6					5.0E+00	3.4E+01		4.4E+00		
2.5E-02	I									5.7	1	0.8	Yes	Fenpropathrin	39515-41-8					5.0E+02	7.3E+01		6.4E+01		
1.3E-02	I									2.42	1	1	Yes	Fluometuron	2164-17-2					2.6E+02	3.4E+03		2.4E+02		
4.0E-02	C	1.3E-02	C							1	1	1	Yes	Fluoride	16984-48-8					8.0E+02	1.8E+05		8.0E+02		
6.0E-02	I	1.3E-02	C							1	1	1	Yes	Fluorine (Soluble Fluoride)	7782-41-4					1.2E+03	2.7E+05		1.2E+03	4.0E+03	
8.0E-02	I									3.16	1	0.9	Yes	Fluridone	59756-60-4					1.6E+03	1.4E+04		1.4E+03		
2.0E-02	I									3.34	1	0.9	Yes	Flurprimidol	56425-91-3					4.0E+02	2.4E+03		3.4E+02		
6.0E-02	I									3.7	1	0.9	Yes	Flutolanil	66332-96-5					1.2E+03	4.5E+03		9.5E+02		
1.0E-02	I									6.81	1	0.6	No	Fluvalinate	69409-94-5					2.0E+02			2.0E+02		
3.5E-03	I									2.85	1	1	Yes	Folpet	133-07-3	2.2E+01	2.0E+02		2.0E+01	2.0E+03	2.1E+04		1.8E+03		
1.9E-01	I									2.9	1	1	Yes	Fomesafen	72178-02-0	4.1E-01	8.7E+00		3.9E-01						
1.3E-05	I	2.0E-03	I	9.8E-03	A	V				3.94	1	0.9	Yes	Fonofos	944-22-9					4.0E+01	6.3E+01		2.4E+01		
		2.0E-01	I							0.35	1	1	Yes	Formaldehyde	50-00-0			4.3E-01	4.3E-01	4.0E+03	3.2E+05	2.0E+01	2.0E+01		
9.0E-01	P	3.0E-04	X	V						-0.54	1	1	Yes	Formic Acid	64-18-6					1.8E+04	6.3E+06	6.3E-01	6.3E-01		
3.0E+00	I									-2.4	1	1	No	Fosetyl-AL	39148-24-8					6.0E+04			6.0E+04		
														Furans											
										1.0E-03	X		V	~Dibenzofuran	132-64-9					2.0E+01	1.3E+01		7.9E+00		
										1.0E-03	I		V	~Furan	110-00-9					2.0E+01	4.8E+02		1.9E+01		
										9.0E-01	I	2.0E+00	I	~Tetrahydrofuran	109-99-9					1.8E+04	1.7E+06	4.2E+03	3.4E+03		
3.8E+00	H									-0.04	1	1	Yes	Furazolidone	67-45-8	2.1E-02	9.8E+00		2.0E-02						
1.5E+00	C	4.3E-04	C	3.0E-03	I	5.0E-02	H	V		0.41	1	1	Yes	Furfural	98-01-1					6.0E+01	7.1E+03	1.0E+02	3.8E+01		
3.0E-02	I	8.6E-06	C							1.8	1	1	Yes	Furium	531-82-8	5.2E-02	1.8E+00		5.0E-02						
										4.38	1	0.9	Yes	Furmecyclo	60568-05-0	2.6E+00	1.9E+00		1.1E+00						
										-5.34	1	1	No	Glufosinate, Ammonium	77182-82-2					8.0E+00			8.0E+00		
										-0.18	1	1	Yes	Glutaraldehyde	111-30-8										
4.0E-04	I	1.0E-03	H	V						-0.12	1	1	Yes	Glycidyl	785-34-4					8.0E+00	1.8E+03	2.1E+00	1.7E+00		
1.0E-01	I									-3.4	1	1	No	Glyphosate	1071-83-6					2.0E+03			2.0E+03	7.0E+02	
3.0E-03	I									4.73	1	0.8	Yes	Goal	42874-03-3					6.0E+01	6.6E+01		3.2E+01		
1.0E-02	X		V							-1.63	1	1	Yes	Guandine	133-00-8					2.0E+02	4.2E+05		2.0E+02		
2.0E-02	P									-1.7	1	1	Yes	Guandine Chloride	50-01-1					4.0E+02	1.0E+09		4.0E+02		
3.0E-03	A	1.0E-02	A							2.75	1	1	Yes	Guthrie	88-50-0					6.0E+01	8.3E+02		5.6E+01		
5.0E-05	I									4.07	1	0.9	Yes	Haloxypol, Methyl	69806-40-2					1.0E+00	3.1E+00		7.6E-01		
1.3E-02	I									1.56	1	1	Yes	Harmony	79277-27-3					2.6E+02	3.5E+04		2.6E+02		
4.5E+00	I	1.3E-03	I	5.0E-04	I	V				6.1	1	0.8	Yes	Heptachlor	76-44-8	1.7E-02	2.2E-03	4.3E-03	1.4E-03	1.0E+01	1.5E+00		1.3E+00	4.0E-01	
9.1E+00	I	2.6E-03	I	1.3E-05	I	V				4.98	1	0.8	Yes	Heptachlor Epoxide	1024-57-3	8.6E-03	6.8E-03	2.2E-03	1.4E-03	2.6E-01	2.4E-01		1.2E-01	2.0E-01	
2.0E-03	I									6.07	1	0.7	No	Hexabromobenzene	87-82-1					4.0E+01			4.0E+01		
2.0E-04	I									1	0	No	Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-163)	88631-49-2					4.0E+00			4.0E+00			
1.6E+00	I	4.6E-04	I	8.0E-04	I	V				5.73	1	0.9	No	Hexachlorobenzene	118-74-1	4.9E-02		1.2E-02	9.8E-03	1.6E+01			1.6E+01	1.0E+00	
7.8E-02	I	2.2E-05	I	1.0E-03	P	V				4.78	1	0.9	Yes	Hexachlorobutadiene	67-68-3	1.0E+00	4.2E-01	2.6E-01	1.4E-01	2.0E+01	9.5E+00		6.5E+00		
6.3E+00	I	1.8E-03	I	8.0E-03	A					3.8	1	0.9	Yes	Hexachlorocyclohexane, Alpha-	319-84-6	1.2E-02	1.7E-02		7.1E-03	1.6E+02	2.5E+02		9.7E+01		
1.8E+00	I	5.3E-04	I							3.78	1	0.9	Yes	Hexachlorocyclohexane, Beta-	319-85-7	4.3E-02	5.9E-02		2.5E-02						
1.1E+00	C	3.1E-04	C	3.0E-04	I					58-89-9			Yes	Hexachlorocyclohexane, Gamma- (Lindane)	608-73-1	7.1E-02	9.6E-02		4.1E-02	6.0E+00	9.2E+00		3.6E+00	2.0E-01	
1.8E+00	I	5.1E-04	I							4.14	1	0.9	Yes	Hexachlorocyclohexane, Technical		4.3E-02	5.9E-02		2.5E-02						
6.0E-03	I	2.0E-04	I	V						5.04	1	0.9	Yes	Hexachlorocyclopentadiene	77-47-4					1.2E+02	4.2E+01	4.2E-01	4.1E-01	5.0E+01	
4.0E-02	I	1.1E-05	C	7.0E-04	I	3.0E-02	I	V		4.14	1	1	Yes	Hexachloroethane	67-72-1	1.9E+00	1.7E+00	5.1E-01	3.3E-01	1.4E+01	1.4E+01	6.3E+01	6.2E+00		
3.0E-04	I									7.54	1	0	No	Hexachlorophene	70-30-4					6.0E+00			6.0E+00		
1.1E-01	I									0.87	1	1	Yes	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	7.1E-01	8.3E+01		7.0E-01	6.0E+01	7.9E+03		6.0E+01		
										3.2	1	1	Yes	Hexamethylene Diisocyanate, 1,6-	822-06-0							2.1E-02	2.1E-02		
										0.28	1	1	Yes	Hexamethylphosphoramidate	680-31-9					8.0E+00	2.0E+03		8.0E+00		
6.0E-02	H	7.0E-01	I	V						3.9	1	1	Yes	Hexane, N-	110-54-3					1.2E+03	6.4E+02	1.5E+03	3.2E+02		
2.0E+00	P									0.08	1	1	Yes	Hexanedioic Acid	124-04-9					4.0E+04	1.1E+07		4.0E+04		
5.0E-03	I	3.0E-02	I	V						1.38	1	1	Yes	Hexanone, 2-	591-78-6					1.0E+02	2.7E+03	6.3E+01	3.8E+01		
3.3E-02	I									1.85	1	1	Yes	Hexazinone	51235-04-2					6.6E+02	2.4E+04		6.4E+02		
3.0E+00	I	4.9E-03	I							-2.07	1	1	Yes	Hydrazine	302-01-2	2.6E-02	1.1E+02	1.1E-03	1.1E-03			6.3E-02	6.3E-02		

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Toxicity and Chemical-specific Information											Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1							
SFO (mg/kg-day)	k e y	IUR (ug/m ³ -1)	k e y	RfD _o (mg/kg-day)	k e y	RfC _i (mg/m ³)	k e y	v o l u t i l e	m u t a g e n	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)
9.5E-04	I			3.0E-01 2.0E-01 1.5E-02	I		V			0.76 1.7 5.8	1 1 1	1 1 0.8	Yes Yes Yes	Isobutyl Alcohol Isophorone Isopropalin	78-83-1 78-59-1 33820-53-0	8.2E+01	1.6E+03		7.8E+01	6.0E+03 4.0E+03 3.0E+02	3.6E+05 8.6E+04 4.6E+01		5.9E+03 3.8E+03 4.0E+01	
				2.0E+00 1.0E-01 5.0E-02	P	2.0E-01	P V			0.05 0.27 3.94	1 1 1	1 1 0.9	Yes Yes Yes	Isopropanol Isopropyl Methyl Phosphonic Acid Isosaben	67-63-0 1832-54-8 82558-50-7					4.0E+04 2.0E+03 1.0E+03	6.5E+06 3.9E+05 2.7E+03	4.2E+02	4.1E+02 2.0E+03 7.3E+02	
						3.0E-01	A V			8 3.43 4.81	1 1 1	0 0.9 0.9	No Yes Yes	JP-7 Kerb Lactofen	NA 23950-58-5 77501-63-4					1.5E+03 4.0E+01	5.5E+03 6.7E+01	6.3E+02	6.3E+02 1.2E+03 2.5E+01	
5.0E-01 8.5E-03	C C	1.5E-01 1.2E-05	C C	2.0E-02	C	2.0E-04	C		M		0.025 1	1 0.8	Yes Yes	Lead Compounds ~Lead Chromate ~Lead Phosphate	7758-97-6 7446-27-7	5.0E-02 9.2E+00	2.3E-01 1.6E+03			4.1E-02 9.1E+00	4.0E+02 2.3E+03		3.4E+02	
2.8E-01 8.5E-03	C C	8.0E-05 1.2E-05	C C							-0.08 -4	1 1 1	1 1 No	Yes Yes No	~Lead acetate ~Lead and Compounds ~Lead subacetate	301-04-2 7439-92-1 1335-32-6	2.8E-01 9.2E+00	2.7E+02		2.8E-01			1.5E+01	1.5E+01	
				1.0E-07 2.0E-03 2.0E-03	I I P		V			4.15 3.2 1	1 1 1	0.9 0.9 1	Yes Yes Yes	~Tetraethyl Lead Linuron Lithium	78-00-2 330-55-2 7439-93-2					2.0E-03 4.0E+01 4.0E+01	3.8E-03 2.0E+02 9.1E+03		1.3E-03 3.3E+01 4.0E+01	
				2.0E-01 5.0E-04 1.0E-02	I I I					2.18 3.25 3.5	1 1 1	1 1 0.9	Yes Yes Yes	Londax MCPA MCPB	83055-99-6 94-74-6 94-81-5					4.0E+03 1.0E+01 2.0E+02	2.4E+05 3.0E+01 5.5E+02		3.9E+03 7.5E+00 1.5E+02	
				1.0E-03 2.0E-02 1.0E-01	I I I					3.13 2.36 1.62	1 1 1	1 1 1	Yes Yes Yes	MCPP Malathion Maleic Anhydride	93-65-2 121-75-5 108-31-6					2.0E+01 4.0E+02 2.0E+03	7.1E+01 1.1E+04 3.8E+04		1.6E+01 3.9E+02 1.9E+03	
				5.0E-01 1.0E-04 3.0E-02	I P H					-0.84 -0.6 1.33	1 1 1	1 1 0.9	Yes Yes Yes	Maleic Hydrazide Malononitrile Mazocob	123-33-1 109-77-3 8018-01-7					1.0E+04 2.0E+00 6.0E+02	8.9E+06 9.1E+02 4.9E+03		1.0E+04 2.0E+00 5.4E+02	
				5.0E-03 1.4E-01 2.4E-02	I I S	5.0E-05 5.0E-05	I I			0.62 1 0.04	1 1 1	1 1 Yes	Yes Yes Yes	Maneb Manganese (Diet) Manganese (Non-Diet)	12427-38-2 7439-96-5 7439-96-5					1.0E+02 4.8E+02	4.4E+03 4.4E+03		9.8E+01 4.3E+02	
				9.0E-05 3.0E-02	H I					1.04 -2.82	1 1	1 1	Yes No	Mephosfolan Mepiquat Chloride	950-10-7 24307-26-4					1.8E+00 6.0E+02	2.5E+02		1.8E+00 6.0E+02	
				3.0E-04 1.0E-04	I I	3.0E-04 3.0E-04	S I V			-0.22 0.62	0.07 1	1 1	Yes Yes	Mercury Compounds ~Mercuric Chloride (and other Mercury salts) ~Mercury (elemental) ~Methyl Mercury	7487-94-7 7439-97-6 22961-92-6					6.0E+00 2.0E+00	9.5E+01 4.5E+02	6.3E-01	5.7E+00 6.3E-01 2.0E+00	2.0E+00 2.0E+00
				8.0E-05 3.0E-05 3.0E-05	I I I		V			0.71 7.67 5.7	1 1 1	1 0.3 0.9	Yes No Yes	~Phenylmercuric Acetate Merphos Merphos Oxide	62-38-4 150-50-5 78-48-8					1.6E+00 6.0E-01 6.0E-01	5.7E+02 3.5E+04 9.9E-02		1.6E+00 6.0E-01 8.5E-02	
				6.0E-02 1.0E-04 5.0E-05	I I I	1.0E-03 3.0E-02	P V			1.65 0.68 -0.8	1 1 1	1 1 Yes	Yes Yes Yes	Metalaxyl Methacrylonitrile Methamidophos	57837-19-1 126-98-7 10265-92-6					1.2E+03 2.0E+00 1.0E+00	6.4E+04 1.3E+02 1.0E+03	6.3E+01	1.2E+03 1.9E+00 1.0E+00	
				2.0E+00 1.0E-03 2.5E-02	I I I	2.0E+01	I V			-0.77 2.2 0.6	1 1 1	1 1 Yes	Yes Yes Yes	Methanol Methidathion Methomyl	67-56-1 950-37-8 16152-11-5					4.0E+04 2.0E+01 5.0E+02	1.8E+07 5.8E+02 6.8E+04	4.2E+04	2.0E+04 1.9E+01 5.0E+02	
4.9E-02	C	1.4E-05	C							1.47 5.08 0.1	1 1 1	1 0.8 1	Yes Yes Yes	Methoxy-5-nitroaniline, 2- Methoxychlor Methoxyethanol Acetate, 2-	99-59-2 72-43-5 110-49-6	1.6E+00	5.2E+01	1.5E+00		1.0E+02 1.6E+02	5.9E+01 3.5E+04	2.1E+00	3.7E+01 2.1E+00	4.0E+01
				5.0E-03 1.0E+00 3.0E-02	P X H	2.0E-02 X 2.0E-02	I V V P V			-0.77 0.18 0.8	1 1 1	1 1 1	Yes Yes Yes	Methoxyethanol, 2- Methyl Acetate Methyl Acrylate	109-86-4 79-20-9 96-33-3					1.0E+02 2.0E+04 6.0E+02	6.3E+04 2.9E+06 3.7E+04	4.2E+01	2.9E+01 2.0E+04 3.9E+01	
				6.0E-01 1.0E-03 8.0E-02	I P H	5.0E+00 2.0E-05 3.0E+00	I V X I V			0.29 -1.05 1.31	1 1 1	1 1 Yes	Yes Yes Yes	Methyl Ethyl Ketone (2-Butanone) Methyl Hydrazine Methyl Isobutyl Ketone (4-methyl-2-pentanone)	78-93-3 60-34-4 108-10-1			5.6E-03	5.6E-03	1.2E+04 2.0E+01 1.6E+03	1.5E+06 1.5E+04 4.9E+04	1.0E+04 4.2E-02 6.3E+03	5.6E+03 4.2E-02 1.2E+03	
				1.4E+00 2.5E-04	I I	7.0E-01	I V			0.79 1.38 2.86	1 1 1	1 1 1	Yes Yes Yes	Methyl Isocyanate Methyl Methacrylate Methyl Parathion	624-83-9 80-62-6 298-00-0					2.8E+04 5.0E+00	7.7E+05 4.1E+01	1.5E+03	2.1E+00 1.4E+03 4.5E+00	
				6.0E-02 6.0E-03	X H		4.0E-02	H V		-1 3.44 -0.66	1 1 1	1 1 Yes	Yes Yes Yes	Methyl Phosphonic Acid Methyl Styrene (Mixed Isomers) Methyl methanesulfonate	993-13-5 25013-15-4 66-27-3					1.2E+03 1.2E+02	1.2E+06 1.6E+02	8.3E+01	1.2E+03 3.8E+01	
1.8E-03 9.0E-03 8.3E+00	C P C	2.6E-07 X 2.4E-03	C X C			3.0E+00	I V			0.94 -2.06 1.87	1 1 1	1 1 Yes	Yes Yes Yes	Methyl tert-Butyl Ether (MTBE) Methyl-1,4-benzenediamine dihydrochloride, 2- Methyl-5-Nitroaniline, 2-	1634-04-4 615-45-2 99-55-8	4.3E+01 8.7E+00	1.9E+03 1.4E+02	2.2E+01	1.4E+01 8.1E+00			6.3E+03	6.3E+03 6.0E+00 3.8E+02	
										-0.92	1	1	Yes	Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	9.4E-03	1.0E+01		9.4E-03					

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice); c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																									
Toxicity and Chemical-specific Information														Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1					
SFO (mg/kg-day) ⁻¹	key	IUR (ug/m ³ -1)	key	RfD _o (mg/kg-day)	key	RfC _i (mg/m ³)	key	vol	muta-	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (µg/L)	Dermal SL TR=1.0E-6 (µg/L)	Inhalation SL TR=1.0E-6 (µg/L)	Carcinogenic SL TR=1.0E-6 (µg/L)	Ingestion SL Child HQ=1 (µg/L)	Dermal SL Child HQ=1 (µg/L)	Inhalation SL Child HQ=1 (µg/L)	Noncarcinogenic SL Child HI=1 (µg/L)	MCL (ug/L)	
1.3E-01	C	3.7E-05	C	1.0E-02	A					-2.06 -1.18	1 1	1 1	Yes Yes	Methylaniline Hydrochloride, 2- Methylarsonic acid	636-21-5 124-58-3	6.0E-01	3.7E+03		6.0E-01	2.0E+02	3.6E+05		2.0E+02		
1.0E-01	X			2.0E-04	X						1	0	No	Methylbenzene, 1,4-diamine monohydrochloride, 2-	74612-12-7					4.0E+00			4.0E+00		
2.2E+01	C	6.3E-03	C	3.0E-04	X				M	6.42	1	0.8	No	Methylbenzene-1,4-diamine sulfate, 2- Methylcholanthrene, 3-	615-50-9 56-49-5	7.8E-01 1.1E-03			7.8E-01 1.1E-03	6.0E+00			6.0E+00		
2.0E-03	I	1.0E-08	I	6.0E-03	I	6.0E-01	I	V	M	1.25	1	1	Yes	Methylene Chloride	75-09-2	1.3E+01	3.4E+02	2.0E+02	1.1E+01	1.2E+02	3.7E+03	1.3E+03	1.1E+02	5.0E+00	
1.0E-01	P	4.3E-04	C	2.0E-03	P				M	3.91	1	0.9	Yes	Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	2.5E-01	4.2E-01		1.6E-01	4.0E+01	7.5E+01		2.6E+01		
4.6E-02	I	1.3E-05	C							4.37	1	1	Yes	Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	1.7E+00	6.4E-01		4.6E-01						
1.6E+00	C	4.6E-04	C			2.0E-02	C			1.59	1	1	Yes	Methylenbisbenzenamine, 4,4'-	101-77-9	4.9E-02	1.6E+00		4.7E-02						
				7.0E-02	H	6.0E-04	I		V	5.22 3.48	1 1	0.9 1	Yes Yes	Methylenediphenyl Diisocyanate Methylstyrene, Alpha-	101-68-8 98-83-9					1.4E+03	1.7E+03		7.8E+02		
				1.5E-01	I					3.13	1	1	Yes	Metolachlor	51218-45-2					3.0E+03	2.6E+04		2.7E+03		
				2.5E-02	I					1.7	1	1	Yes	Metribuzin	21087-64-9					5.0E+02	1.8E+04		4.9E+02		
				3.0E+00	P			V		6.1	1	1	No	Mineral oils	8012-95-1					6.0E+04			6.0E+04		
1.8E+01	C	5.1E-03	C	2.0E-04	I			V		6.89	1	0.5	No	Mirex	2385-85-5	4.3E-03		1.1E-03	8.8E-04	4.0E+00			4.0E+00		
				2.0E-03	I					3.21	1	1	Yes	Molinate	2212-67-1					4.0E+01	1.2E+02		3.0E+01		
				5.0E-03	I						1	1	Yes	Molybdenum	7439-98-7					1.0E+02	2.3E+04		1.0E+02		
				1.0E-01	I						1	1	Yes	Monochloramine	10599-90-3					2.0E+03	4.5E+05		2.0E+03	4.0E+03	
				2.0E-03	P					1.66	1	1	Yes	Monomethylaniline	100-61-8					4.0E+01	7.5E+02		3.8E+01		
				3.0E-04	X					4.04	1	0.9	Yes	N,N-Diphenyl-1,4-benzenediamine	74-31-7					6.0E+00	8.8E+00		3.6E+00		
				2.0E-03	I			V		1.38	1	1	Yes	Naled	300-76-5					4.0E+01	6.8E+03		4.0E+01		
1.8E+00	C	0.0E+00	C	3.0E-02	X	1.0E-01	P	V		2.28	1	0	No	Naphtha, High Flash Aromatic (HFAN)	64742-95-6	4.3E-02	3.5E-01		3.9E-02	6.0E+02		2.1E+02	1.5E+02		
											1	1	Yes	Naphthylamine, 2-	91-59-8										
				1.0E-01	I					3.36	1	0.9	Yes	Napropamide	15299-99-7					2.0E+03	8.9E+03		1.6E+03		
		2.6E-04	C	1.1E-02	C	1.4E-05	C				1	1	Yes	Nickel Acetate	373-02-4					2.2E+02	6.8E+05		2.2E+02		
		2.6E-04	C	1.1E-02	C	1.4E-05	C				1	1	Yes	Nickel Carbonate	3333-67-3					2.2E+02	1.4E+06		2.2E+02		
		2.6E-04	C	1.1E-02	C	1.4E-05	C	V			1	0	Yes	Nickel Carbonyl	13463-39-3			2.2E-02	2.2E-02			2.9E-02	2.9E-02		
		2.6E-04	C	1.1E-02	C	1.4E-05	C			0.04	1	1	Yes	Nickel Hydroxide	12054-48-7					2.2E+02	2.0E+03		2.0E+02		
		2.6E-04	C	1.1E-02	C	2.0E-05	C			0.04	1	1	Yes	Nickel Oxide	1313-99-1					2.2E+02	2.0E+03		2.0E+02		
		2.4E-04	I	1.1E-02	C	1.4E-05	C			0.04	0	Yes	Nickel Refinery Dust	NA					2.2E+02	1.0E+04		2.2E+02			
1.7E+00	C	2.6E-04	C	2.0E-02	I	9.0E-05	A			0.04	1	1	Yes	Nickel Soluble Salts	7440-02-0	4.6E-02	1.6E+00		4.5E-02	4.0E+02	1.8E+04		3.9E+02		
		4.8E-04	I	1.1E-02	C	1.4E-05	C			0.04	1	1	Yes	Nickel Suboxide	12034-72-2					2.2E+02	1.0E+04		2.2E+02		
		2.6E-04	C	1.1E-02	C	1.4E-05	C				1	0	Yes	Nickelocene	1271-28-9					2.2E+02			2.2E+02		
		1.6E+00	I								1	1	Yes	Nitrate	14797-55-8					3.2E+04	7.3E+06		3.2E+04	1.0E+04	
											1	0	Yes	Nitrate + Nitrite (as N)	NA								1.0E+04		
				1.0E-01	I						1	1	Yes	Nitrite	14797-85-0					2.0E+03	4.5E+05		2.0E+03	1.0E+03	
2.0E-02	P			1.0E-02	X	5.0E-05	X			1.85	1	1	Yes	Nitroaniline, 2-	88-74-4	3.9E+00	1.2E+02		3.8E+00	2.0E+02	3.4E+03		1.9E+02		
				4.0E-03	P	6.0E-03	P			1.39	1	1	Yes	Nitroaniline, 4-	100-01-6					8.0E+01	2.8E+03		7.8E+01		
				4.0E-05	I	2.0E-03	I	9.0E-03	I	V	1.85	1	1	Yes	Nitrobenzene	98-95-3			1.4E-01	1.4E-01	4.0E+01	6.2E+02	1.9E+01	1.3E+01	
				3.0E+03	P					-4.56	1	1	No	Nitrocellulose	9004-70-0					6.0E+07			6.0E+07		
				7.0E-02	H					-0.47	1	1	Yes	Nitrofurantoin	67-20-9					1.4E+03	1.6E+06		1.4E+03		
1.3E+00	C	3.7E-04	C							0.23	1	1	Yes	Nitrofurazone	59-87-0	6.0E-02	1.6E+01		6.0E-02				2.0E+00		
1.7E-02	P			1.0E-04	P					1.62	1	1	Yes	Nitroglycerin	55-63-0	4.6E+00	1.8E+02		4.5E+00	2.0E+00	8.7E+01		2.0E+00		
				1.0E-01	I					-0.89	1	1	Yes	Nitroguanidine	556-88-7					2.0E+03	1.8E+06		2.0E+03		
		8.8E-06	P			5.0E-03	P	V		-0.35	1	1	Yes	Nitromethane	75-52-5			6.4E-01	6.4E-01			1.0E+01	1.0E+01		
2.7E+01	C	7.7E-03	H			2.0E-02	I	V		0.93	1	1	Yes	Nitropropane, 2-	79-46-9			2.1E-03	2.1E-03			4.2E+01	4.2E+01		
		2.7E-03	C						M	0.23	1	1	Yes	Nitroso-N-ethylurea, N-	759-73-9	9.3E-04	1.5E-01		9.2E-04						
1.2E+02	C	3.4E-02	C						M	-0.03	1	1	Yes	Nitroso-N-methylurea, N-	684-93-5	2.1E-04	4.5E-02		2.1E-04						
5.4E+00	I	1.6E-03	I					V		2.63	1	1	Yes	Nitroso-di-N-butylamine, N-	924-16-3	1.4E-02	7.6E-02	3.5E-03	2.7E-03						
7.0E+00	I	2.0E-03	C							1.36	1	1	Yes	Nitroso-di-N-propylamine, N-	621-64-7	1.1E-02	3.4E-01		1.1E-02						
2.8E+00	I	8.0E-04	C							-1.28	1	1	Yes	Nitrosodiethanolamine, N-	1116-54-7	2.8E-02	7.8E+01		2.8E-02						
1.5E+02	I	4.3E-02	I						M	0.48	1	1	Yes	Nitrosodiethylamine, N-	55-18-5	1.7E-04	1.6E-02		1.7E-04						
5.1E+01	I	1.4E-02	I	8.0E-06	P	4.0E-05	X	V	M	-0.57	1	1	Yes	Nitrosodimethylamine, N-	62-75-9	4.9E-04	1.9E-01	1.5E-04	1.1E-04	1.6E-01	7.4E+01	8.3E-02	5.5E-02		
4.9E-03	I	2.6E-06	C							3.13	1	1	Yes	Nitrosodiphenylamine, N-	86-30-6	1.6E+01	5.0E+01		1.2E+01						

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice); c = cancer; * = where n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1															Toxicity and Chemical-specific Information										Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1				
SFO (mg/kg-day) ⁻¹	k e y	IUR (ug/m ³ -y) ⁻¹	k e y	RfD _c (mg/kg-day)	k e y	RfC _i (mg/m ³)	k e y	v o l a t i l e	m u t a g e n	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)											
3.0E-03	I									8.71	1	0.3	No	Octabromodiphenyl Ether	32536-52-0					6.0E+01			6.0E+01												
5.0E-02	I									0.16	1	1	Yes	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0					1.0E+03	6.3E+05		1.0E+03												
2.0E-03	H									-1.01	1	1	Yes	Octamethylpyrophosphoramide	152-16-9					4.0E+01	1.4E+05		4.0E+01												
5.0E-02	I									3.73	1	0.9	Yes	Oryzalin	19044-88-3					1.0E+03	4.1E+03		8.1E+02												
5.0E-03	I									4.8	1	0.8	Yes	Oxadiazon	19666-30-9					1.0E+02	9.0E+01		4.7E+01												
2.5E-02	I									-0.47	1	1	Yes	Oxamyl	23135-22-0					5.0E+02	5.0E+05		5.0E+02	2.0E+02											
1.3E-02	I									3.2	1	0.9	Yes	Padobutrazol	76738-62-0					2.6E+02	1.7E+03		2.3E+02												
4.5E-03	I									-4.5	1	1	No	Paraquat Dichloride	1910-42-5					9.0E+01			9.0E+01												
6.0E-03	H									3.83	1	0.9	Yes	Parathion	56-38-2					1.2E+02	3.0E+02		8.6E+01												
5.0E-02	H							V		3.83	1	1	Yes	Pebulate	1114-71-2					1.0E+03	1.3E+03		5.6E+02												
4.0E-02	I									5.18	1	0.9	Yes	Pendimethalin	40487-42-1					8.0E+02	2.3E+02		1.8E+02												
2.0E-03	I									6.84	1	0.6	No	Pentabromodiphenyl Ether	32534-81-9					4.0E+01			4.0E+01												
1.0E-04	I									7.66	1	0.6	No	Pentabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-99)	60348-60-9					2.0E+00			2.0E+00												
8.0E-04	I							V		5.17	1	0.9	Yes	Pentachlorobenzene	608-93-5					1.6E+01	3.9E+00		3.2E+00												
9.0E-02	P							V		3.22	1	1	Yes	Pentachloroethane	76-01-7	8.7E-01	2.4E+00		6.4E-01	6.0E+01	4.4E+01		2.5E+01												
2.6E-01	H							V		4.64	1	0.9	Yes	Pentachloronitrobenzene	82-68-8	3.0E-01	1.9E-01		1.2E-01	6.0E+01	4.4E+01		2.5E+01												
4.0E-01	I	5.1E-06	C	5.0E-03	I					5.12	1	0.9	Yes	Pentachlorophenol	87-86-5	1.9E-01	5.0E-02		4.0E-02	1.0E+02	2.9E+01		2.3E+01	1.0E+00											
4.0E-03	X			2.0E-03	P					2.38	1	1	Yes	Pentaerythritol tetranitrate (PETN)	78-11-5	1.9E+01	4.1E+02		1.9E+01	4.0E+01	9.6E+02		3.9E+01												
						1.0E+00	P	V		3.39	1	1	Yes	Pentane, n-	109-66-0							2.1E+03	2.1E+03												
														Perchlorates																					
7.0E-04	I										1	1	Yes	~Ammonium Perchlorate	7790-98-9					1.4E+01	3.2E+03		1.4E+01												
7.0E-04	I										1	1	Yes	~Lithium Perchlorate	7791-03-9					1.4E+01	3.2E+03		1.4E+01												
7.0E-04	I										1	1	Yes	~Perchlorate and Perchlorate Salts	14797-73-0					1.4E+01	3.2E+03		1.4E+01	1.5E+01(F)											
7.0E-04	I										1	1	Yes	~Potassium Perchlorate	7778-74-7					1.4E+01	1.6E+03		1.4E+01												
7.0E-04	I										1	1	Yes	~Sodium Perchlorate	7601-89-0					1.4E+01	3.2E+03		1.4E+01												
2.0E-02	P							V		1.8173	1	1	Yes	Perfluorobutane Sulfonate	375-73-5					4.0E+02	8.3E+03		3.8E+02												
2.2E-03	C	6.3E-07	C	5.0E-02	I					6.5	1	0.6	No	Permethrin	52645-53-1	3.5E+01	1.1E+03		3.4E+01	1.0E+03			1.0E+03												
										1.58	1	1	Yes	Phenacetin	102-44-2																				
2.5E-01	I									3.59	1	0.9	Yes	Phenmedipham	13684-63-4					5.0E+03	1.9E+04		4.0E+03												
3.0E-01	I	2.0E-01	C							1.46	1	1	Yes	Phenol	108-95-2					6.0E+03	1.4E+05		5.8E+03												
5.0E-04	X									4.15	1	1	Yes	Phenothiazine	92-84-2					1.0E+01	7.5E+00		4.3E+00												
6.0E-03	I									-0.33	1	1	Yes	Phenylendiamine, m-	108-45-2					1.2E+02	4.8E+04		1.2E+02												
4.7E-02	H									0.15	1	1	Yes	Phenylendiamine, o-	95-54-5	1.7E+00	2.8E+02		1.6E+00				3.8E+03												
1.9E-03	H									-0.3	1	1	Yes	Phenylendiamine, p-	106-50-3					3.8E+03	1.4E+06		3.8E+03												
2.0E-02	I									3.09	1	1	Yes	Phenylphenol, 2-	90-43-7	4.0E+01	1.1E+02		3.0E+01	4.0E+00	1.2E+01		3.0E+00												
										3.56	1	0.9	Yes	Phorate	298-02-2																				
										-0.71	1	1	Yes	Phosgene	75-44-5																				
2.0E-02	I									2.78	1	1	Yes	Phosinet	32-11-8					4.0E+02	5.3E+03		3.7E+02												
4.9E+01	P										1	1	Yes	Phosphates, Inorganic																					
											1	1	Yes	~Aluminum metaphosphate	13776-88-0					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	0	Yes	~Ammonium polyphosphate	68333-79-9					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Calcium pyrophosphate	7790-76-3					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Diammonium phosphate	7783-28-0					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Dicalcium phosphate	7757-93-9					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Dimagnesium phosphate	7782-75-4					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Dipotassium phosphate	7758-11-4					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Disodium phosphate	7558-79-4					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Monoaluminum phosphate	13530-50-2					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Monoammonium phosphate	7722-76-1					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Monocalcium phosphate	7758-23-8					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Monomagnesium phosphate	7757-86-0					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Monopotassium phosphate	7778-77-0					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Monosodium phosphate	7558-80-7					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Polyphosphoric acid	8017-16-1					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	0.9	Yes	~Potassium triphosphate	13845-36-8					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Sodium acid pyrophosphate	7758-16-9					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Sodium aluminum phosphate (acidic)	7785-88-8					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	0	Yes	~Sodium aluminum phosphate (anhydrous)	10279-59-1					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	0.8	Yes	~Sodium aluminum phosphate (tetrahydrate)	10305-76-7					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	0.9	Yes	~Sodium hexametaphosphate	10124-56-8					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Sodium polyphosphate	68915-31-1					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Sodium trimetaphosphate	7785-84-4					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Sodium tripolyphosphate	7758-29-4					9.7E+05	2.2E+08		9.7E+05												
4.9E+01	P										1	1	Yes	~Tetrapotassium phosphate	7320-34-5					9.7E+05	2.2E+08		9.7E+05												

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice) ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																									
Toxicity and Chemical-specific Information													Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1						
SFO (mg/kg-day) ¹	key	IUR (ug/m ³ -y)	key	RfD _o (mg/kg-day)	key	RfC _i (mg/m ³)	key	v	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)	
4.9E+01	P			4.9E+01	P						1	1	Yes	~Tetrasodium pyrophosphate	7722-88-5					9.7E+05	2.2E+08		9.7E+05		
4.9E+01	P			4.9E+01	P						1	0.8	Yes	~Trialluminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5					9.7E+05	2.2E+08		9.7E+05		
4.9E+01	P			4.9E+01	P						1	1	Yes	~Tricalcium phosphate	7758-87-4					9.7E+05	2.2E+08		9.7E+05		
4.9E+01	P			4.9E+01	P						1	1	Yes	~Trimagnesium phosphate	7757-87-1					9.7E+05	2.2E+08		9.7E+05		
4.9E+01	P			4.9E+01	P						1	1	Yes	~Tripotassium phosphate	7778-53-2					9.7E+05	2.2E+08		9.7E+05		
4.9E+01	P			4.9E+01	P						1	1	Yes	~Trisodium phosphate	7601-54-9					9.7E+05	2.2E+08		9.7E+05		
3.0E-04	I	3.0E-04	I	3.0E-04	I	V				-0.27	1	1	Yes	Phosphine	7803-51-2					6.0E+00	1.4E+03	6.3E-01	5.7E-01		
4.9E+01	P	1.0E-02	I	4.9E+01	P	1.0E-02	I				1	1	Yes	Phosphoric Acid	7664-38-2					9.7E+05	2.2E+08		9.7E+05		
2.0E-05	I			2.0E-05	I		V			3.08	1	1	Yes	Phosphorus, White	7723-14-0					4.0E-01	9.1E+01		4.0E-01		
1.4E-02	I	2.4E-06	C	2.0E-02	I					7.6	1	0.8	No	Phthalates		5.6E+00			5.6E+00	4.0E+02			4.0E+02	6.0E+00	
				1.0E+00	I					4.15	1	0.9	Yes	~Bis(2-ethylhexyl)phthalate	117-81-7					2.0E+04	4.1E+04		1.3E+04		
				1.0E-01	I					4.5	1	0.9	Yes	~Butylphthalyl Butylglycolate	85-70-1										
				8.0E-01	I					2.42	1	1	Yes	~Dibutyl Phthalate	84-74-2					2.0E+03	1.6E+03		9.0E+02		
				1.0E-01	I		V			2.25	1	1	Yes	~Diethyl Phthalate	84-66-2					1.6E+04	2.0E+05		1.5E+04		
													Yes	~Dimethylterephthalate	120-61-6					2.0E+03	2.7E+04		1.9E+03		
				1.0E-02	P					8.1	1	0	No	~Octyl Phthalate, di-N-	117-84-0					2.0E+02			2.0E+02		
				1.0E+00	H					2	1	1	Yes	~Phthalic Acid, P-	100-21-0					2.0E+04	3.3E+05		1.9E+04		
				2.0E+00	I	2.0E-02	C			1.6	1	1	Yes	~Phthalic Anhydride	85-44-9					4.0E+04	1.1E+06		3.9E+04		
				7.0E-02	I					1.9	1	1	Yes	Picloram	1918-02-1					1.4E+03	4.3E+04		1.4E+03	5.0E+02	
				1.0E-04	X					0.93	1	1	Yes	Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3					2.0E+00	2.1E+02		2.0E+00		
				1.0E-02	I					4.2	1	0.9	Yes	Pirimiphos, Methyl	29232-93-7					2.0E+02	3.1E+02		1.2E+02		
3.0E+01	C	8.6E-03	C	7.0E-06	H						1	0	No	Polybrominated Biphenyls	59536-65-1	2.6E-03			2.6E-03	1.4E-01			1.4E-01		
7.0E-02	S	2.0E-05	S	7.0E-05	I					5.69	1	0.9	No	Polychlorinated Biphenyls (PCBs)						1.4E+00			1.4E+00		
													No	~Aroclor 1016	126/4-11-2	1.1E+00		2.8E-01	2.2E-01						
2.0E+00	S	5.7E-04	S							4.65	1	1	Yes	~Aroclor 1221	11104-28-2	3.9E-02	1.1E-02	9.8E-03	4.6E-03						
2.0E+00	S	5.7E-04	S							4.4	1	1	Yes	~Aroclor 1232	11141-16-5	3.9E-02	1.1E-02	9.8E-03	4.6E-03						
2.0E+00	S	5.7E-04	S							6.34	1	0.7	No	~Aroclor 1242	53469-21-9	3.9E-02		9.8E-03	7.8E-03						
2.0E+00	S	5.7E-04	S							6.2	1	0.7	No	~Aroclor 1248	12672-29-6	3.9E-02		9.8E-03	7.8E-03						
2.0E+00	S	5.7E-04	S	2.0E-05	I					6.5	1	0.5	No	~Aroclor 1254	11097-89-1	3.9E-02		9.8E-03	7.8E-03	4.0E-01			4.0E-01		
2.0E+00	S	5.7E-04	S							7.55	1	0	No	~Aroclor 1260	11096-82-5	3.9E-02		9.8E-03	7.8E-03						
				6.0E-04	X					6.34	1	0.7	No	~Aroclor 5460	11126-42-4					1.2E+01			1.2E+01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		8.27	1	0	No	~Heptachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 189)	39635-31-9	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		7.5	1	0	No	~Hexachlorobiphenyl, 2,3',4,4',5,5'-(PCB 167)	52663-72-6	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		7.6	1	0	No	~Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 157)	69782-90-7	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		7.6	1	0	No	~Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 156)	38380-08-4	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+03	E	1.1E+00	E	2.3E-08	E	1.3E-06	E	V		7.41	1	0.1	No	~Hexachlorobiphenyl, 3,3',4,4',5,5'-(PCB 169)	32774-16-6	2.0E-05		4.9E-06	4.0E-06	4.7E-04		2.8E-03	4.0E-04		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		6.98	1	0.4	No	~Pentachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 123)	85510-44-3	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		7.12	1	0.3	No	~Pentachlorobiphenyl, 2,3',4,4',5,5'-(PCB 118)	31508-00-6	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		6.79	1	0.5	No	~Pentachlorobiphenyl, 2,3,3',4,4'-(PCB 105)	32598-14-4	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
3.9E+00	E	1.1E-03	E	2.3E-05	E	1.3E-03	E	V		6.98	1	0.4	No	~Pentachlorobiphenyl, 2,3,4,4',5,5'-(PCB 114)	74472-37-0	2.0E-02		4.9E-03	4.0E-03	4.7E-01		2.8E+00	4.0E-01		
1.3E+04	E	3.8E+00	E	7.0E-09	E	4.0E-07	E	V		6.98	1	0.4	No	~Pentachlorobiphenyl, 3,3',4,4',5,5'-(PCB 126)	57465-28-8	6.0E-06		1.5E-06	1.2E-06	1.4E-04		8.3E-04	1.2E-04		
2.0E+00	I	5.7E-04	I							7.1	1	0.7	No	~Polychlorinated Biphenyls (high risk)	1336-36-3										
4.0E-01	I	1.0E-04	I							7.1	1	0.7	No	~Polychlorinated Biphenyls (low risk)	1336-36-3	1.9E-01		5.6E-02	4.4E-02					5.0E-01	
7.0E-02	I	2.0E-05	I							7.1	1	0.7	No	~Polychlorinated Biphenyls (lowest risk)	1336-36-3										
1.3E+01	E	3.8E-03	E	7.0E-06	E	4.0E-04	E			6.63	1	0.6	No	~Tetrachlorobiphenyl, 3,3',4,4'-(PCB 77)	32598-13-3	6.0E-03			6.0E-03	1.4E-01			1.4E-01		
3.9E+01	E	1.1E-02	E	2.3E-06	E	1.3E-04	E	V		6.34	1	0.7	No	~Tetrachlorobiphenyl, 3,4,4',5'-(PCB 81)	70362-50-4	2.0E-03		4.9E-04	4.0E-04	4.7E-02		2.8E-01	4.0E-02		
				6.0E-04	I					10.46	1	0	No	Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9										
													No	Polynuclear Aromatic Hydrocarbons (PAHs)											
				6.0E-02	I					3.92	1	1	Yes	~Acenaphthene	83-32-9					1.2E+03	9.6E+02		5.3E+02		
				3.0E-01	I					4.45	1	1	Yes												

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice); c = cancer; * = where n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																								
Toxicity and Chemical-specific Information													Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1					
SFO (mg/kg-day) ⁻¹	k _e y	IUR (ug/m ³ -y) ⁻¹	k _e y	RfD _o (mg/kg-day)	k _e y	RfC _i (mg/m ³)	k _e y	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)	
		3.4E-05	C	4.0E-03 2.0E-02	I I	3.0E-03	I	V	3.86 3.3	1 1	1 1	Yes Yes	~Methylnaphthalene, 2- ~Naphthalene	91-57-6 91-20-3			1.7E-01	1.7E-01		8.0E+01 4.0E+02	6.5E+01 7.0E+02	6.3E+00	3.6E+01 6.1E+00	
1.2E+00	C	1.1E-04	C	3.0E-02 2.0E-02	I P			V	4.75 4.88 -0.33	1 1 1	0.9 1 1	Yes Yes Yes	~Nitropyrene, 4- ~Pyrene Potassium Perfluorobutane Sulfonate	57835-92-4 129-00-0 29420-49-3	6.5E-02	2.6E-02		1.9E-02		6.0E+02 4.0E+02	1.5E+02 2.8E+05		1.2E+02 4.0E+02	
1.5E-01	I			9.0E-03 6.0E-03 1.5E-02	I H I			V	4.1 5.58 2.99	1 1 1	0.9 0.8 1	Yes Yes Yes	Prochloraz Profuralin Prometon	67747-09-5 26399-36-0 1610-18-0	5.2E-01	1.3E+00		3.7E-01		1.8E+02 1.2E+02 3.0E+02	5.1E+02 3.3E+01 1.6E+03		1.3E+02 2.6E+01 2.5E+02	
				4.0E-03 1.3E-02 5.0E-03	I I I				3.51 2.18 3.07	1 1 1	0.9 1 1	Yes Yes Yes	Prometryn Propachlor Propanil	7287-19-6 1918-16-7 709-98-8						8.0E+01 2.6E+02 1.0E+02	2.3E+02 4.3E+03 4.4E+02		6.0E+01 2.5E+02 8.2E+01	
				2.0E-02 2.0E-03 2.0E-02	I I I			V	5 -0.38 2.93	1 1 1	0.8 1 1	Yes Yes Yes	Propargite Propargyl Alcohol Propazine	2312-35-8 107-19-7 139-40-2						4.0E+02 4.0E+01 4.0E+02	2.7E+02 1.2E+04 2.4E+03		1.6E+02 4.0E+01 3.4E+02	
				2.0E-02 1.3E-02	I I				2.6 3.72 0.59	1 1 1	1 0.9 1	Yes Yes Yes	Propham Propiconazole Propionaldehyde	122-42-9 60207-90-1 123-38-6						4.0E+02 2.6E+02	2.8E+03 1.1E+03	1.7E+01	3.5E+02 2.1E+02 1.7E+01	
				1.0E-01 3.0E+00 2.0E+01	X C P	1.0E+00 3.0E+00	X V		3.69 1.77 -0.92	1 1 1	1 1 1	Yes Yes Yes	Propyl benzene Propylene Propylene Glycol	103-65-1 115-07-1 57-55-6						2.0E+03 1.8E+03 4.0E+05	2.1E+03 6.3E+03 3.2E+08		6.6E+02 6.3E+03 4.0E+05	
				7.0E-01 7.0E-01	H H	2.7E-04 2.0E+00	A I		1.59 0.002 -0.49	1 1 1	1 1 1	Yes Yes Yes	Propylene Glycol Dinitrate Propylene Glycol Monoethyl Ether Propylene Glycol Monomethyl Ether	6423-43-4 1569-02-4 101-98-2						1.4E+04 1.4E+04	3.3E+06 3.9E+06	4.2E+03	1.4E+04 3.2E+03	
2.4E-01	I	3.7E-06	I	3.0E-02	I	V			0.03	1	1	Yes	Propylene Oxide	75-56-9	3.2E-01	4.5E+01	1.5E+00	2.7E-01			6.3E+01	6.3E+01		
				2.5E-01 2.5E-02	I I				2.6 6.2	1 1	1 0.7	Yes No	Pursuit Pydin	81335-77-5 51630-58-1						5.0E+03 5.0E+02	7.2E+04		4.7E+03 5.0E+02	
3.0E+00	I			1.0E-03 5.0E-04	I I			V	0.65 4.44 2.03	1 1 1	1 0.9 1	Yes Yes Yes	Pyridine Quinalphos Quindide	110-88-1 13503-03-8 91-22-5	2.6E-02	2.8E-01		2.4E-02		2.0E+01 1.0E+01	1.5E+03 1.0E+01		2.0E+01 5.1E+00	
				3.0E-02 5.0E-02	I H	3.0E-02	A		6.14 4.88	1 1	0 0.8	Yes Yes	Refractory Ceramic Fibers Resmethrin Ronnel	NA 10453-86-8 299-84-3						6.0E+02 1.0E+03	7.6E+01 6.8E+02		6.7E+01 4.1E+02	
2.2E-01	C	6.3E-05	C	4.0E-03 2.5E-02	I I			M	4.1 3.45 5.57	1 1 1	0.9 1 0.8	Yes Yes Yes	Rotenone Safrole Savay	83-79-4 94-59-7 78587-05-0	1.1E-01	5.9E-01		9.5E-02		8.0E+01 5.0E+02	2.6E+02 1.4E+02		6.1E+01 1.1E+02	
				5.0E-03 5.0E-03 5.0E-03	I I C	2.0E-02 2.0E-02	C			1 1 1	1 1 1	Yes Yes Yes	Selenious Acid Selenium Selenium Sulfide	7783-00-8 7782-49-2 7446-34-6						1.0E+02 1.0E+02 1.0E+02	2.3E+04 2.3E+04 2.3E+04		1.0E+02 1.0E+02 1.0E+02	5.0E+01
				9.0E-02 5.0E-03	I I	3.0E-03	C		4.38 1 0.04	1 1 1	0.9 1 1	Yes Yes Yes	Sethoxydim Silica (crystalline, respirable) Silver	74051-80-2 7631-86-9 7440-22-4						1.8E+03 1.0E+02	2.4E+03 1.5E+03		1.0E+03 9.4E+01	
1.2E-01	H			5.0E-03 1.3E-02 4.0E-03	I I I				2.18 0.37 1	1 1 1	1 1 1	Yes Yes Yes	Simazine Sodium Acifluorfen Sodium Azide	122-34-9 62476-59-9 26628-22-8	6.5E-01	8.9E+00		6.1E-01		1.0E+02 2.6E+02 8.0E+01	1.6E+03 2.1E+05 1.8E+04		9.4E+01 2.6E+02 8.0E+01	4.0E+00
5.0E-01	C	1.5E-01	C	2.0E-02 3.0E-02 5.0E-02	C I A	2.0E-04 1.3E-02	C	M	0.025 -1.431 1	1 1 1	1 1 1	Yes Yes Yes	Sodium Dichromate Sodium Diethyldithiocarbamate Sodium Fluoride	10588-01-9 148-18-5 7681-49-4	5.0E-02 2.9E-01	2.3E-01 8.2E+02		4.1E-02 2.9E-01		4.0E+02 6.0E+02 1.0E+03	2.3E+03 1.9E+06 2.3E+05		3.4E+02 6.0E+02 1.0E+03	
				2.0E-05 1.0E-03 3.0E-02	I H I				-3.78 1 3.53	1 1 1	1 1 0.9	No Yes Yes	Sodium Fluoroacetate Sodium Metavanadate Stirofos (Tetrachlorovinphos)	62-74-8 13718-26-8 961-11-5	3.2E+00	1.8E+01		2.8E+00		4.0E-01 2.0E+01 6.0E+02	4.5E+03 4.5E+03 3.8E+03		4.0E-01 2.0E+01 5.2E+02	
5.0E-01	C	1.5E-01	C	2.0E-02 6.0E-01 3.0E-04	C I I	2.0E-04	C	M	0.025 1 1.93	1 1 1	1 1 1	Yes Yes Yes	Strontium Chromate Strontium, Stable Strychnine	7789-06-2 7440-24-6 57-24-9	5.0E-02	2.3E-01		4.1E-02		4.0E+02 1.2E+04 6.0E+00	2.3E+03 2.7E+06 3.2E+02		3.4E+02 1.2E+04 5.9E+00	
				2.0E-01 3.0E-03 1.0E-03	I P P	1.0E+00 2.0E-03	I X		2.95 3.1 -0.77	1 1 1	1 1 1	Yes Yes Yes	Styrene Styrene-Acrylonitrile (SAN) Trimer Sulfolane	100-42-5 NA 126-33-0						4.0E+03 6.0E+01 2.0E+01	1.0E+04 2.4E+02 1.7E+04	2.1E+03	1.2E+03 4.8E+01 2.0E+01	1.0E+02
				8.0E-04	P				3.9	1	0.9	Yes	Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9						1.6E+01	3.5E+01	2.1E+00	1.1E+01 2.1E+00	
				2.5E-02 3.0E-02 7.0E-02	I H I				2.94 3.3 1.79	1 1 1	0.9 0.9 1	Yes Yes Yes	Systhane TCMTB Tebuthiuron	88671-89-0 21564-17-0 34014-18-1						5.0E+02 6.0E+02 1.4E+03	4.8E+03 2.4E+03 4.7E+04		4.5E+02 4.8E+02 1.4E+03	
				2.0E-02 1.3E-02	H I				5.96 1.89	1 1	0.7 1	No Yes	Temephos Terbacil	3383-96-8 5902-51-2						4.0E+02 2.6E+02			4.0E+02 2.5E+02	

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Toxicity and Chemical-specific Information														Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHLD Hazard Index (HI) = 1						
SFO (mg/kg-day) ⁻¹	k e y	IUR (ug/m ³ -1)	k e y	RfD ₀ (mg/kg-day)	k e y	RfC ₀ (mg/m ³)	k e y	v o l a t i l e	m u t a g e n	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)		
				2.5E-05	H			V		4.48	1	0.9	Yes	Terbufos	13071-79-9					5.0E-01	4.5E-01		2.4E-01			
				1.0E-03	I					3.74	1	0.9	Yes	Terbutryn	886-50-0					2.0E+01	4.1E+01		1.3E+01			
				1.0E-04	I					6.77	1	0.6	No	Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1					2.0E+00			2.0E+00			
				3.0E-04	I			V		4.64	1	1	Yes	Tetrachlorobenzene, 1,2,4,5-	95-94-3					6.0E+00	2.4E+00		1.7E+00			
2.6E-02	I	7.4E-06	I	3.0E-02	I			V		2.93	1	1	Yes	Tetrachloroethane, 1,1,1,2-	630-20-6	3.0E+00	1.0E+01	7.6E-01	5.7E-01	6.0E+02	2.4E+03		4.8E+02			
2.0E-01	I	5.8E-05	C	2.0E-02	I			V		2.39	1	1	Yes	Tetrachloroethane, 1,1,2,2-	79-34-5	3.9E-01	3.1E+00	9.7E-02	7.6E-02	4.0E+02	3.6E+03		3.6E+02			
2.1E-03	I	2.6E-07	I	6.0E-03	I	4.0E-02	I	V		3.4	1	1	Yes	Tetrachloroethylene	127-18-4	3.7E+01	6.3E+01	2.2E+01	1.1E+01	1.2E+02	2.3E+02	8.3E+01	4.1E+01	5.0E+00		
				3.0E-02	I					4.45	1	0.9	Yes	Tetrachlorophenol, 2,3,4,6-	58-90-2					6.0E+02	3.9E+02		2.4E+02			
2.0E+01	H			5.0E-04	I			V		4.54	1	0.9	Yes	Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	3.9E-03	1.9E-03		1.3E-03							
										3.99	1	0.9	Yes	Tetraethyl Dithiophosphosphate	3689-24-5					1.0E+01	2.4E+01		7.1E+00			
						8.0E+01	I	V		1.68	1	1	Yes	Tetrafluoroethane, 1,1,1,2-	811-97-2							1.7E+05	1.7E+05			
				2.0E-03	P					1.64	1	1	Yes	Tetryl (Trinitrophenylmethyl/nitramine)	479-45-8					4.0E+01	2.5E+03		3.9E+01			
				7.0E-06	X						1	1	Yes	Thallium (I) Nitrate	10102-45-1					1.4E-01	3.2E+01		1.4E-01			
				1.0E-05	X						1	1	Yes	Thallium (Soluble Salts)	7440-28-0					2.0E-01	4.5E+01		2.0E-01	2.0E+00		
				6.0E-06	X			V		-0.17	1	1	Yes	Thallium Acetate	563-68-8					1.2E-01	1.0E+02		1.2E-01			
				2.0E-05	X						1	1	Yes	Thallium Carbonate	6533-73-9					4.0E-01	3.7E+03		4.0E-01			
				6.0E-06	X						1	1	Yes	Thallium Chloride	7791-12-0					1.2E-01	2.7E+01		1.2E-01			
				2.0E-05	X						1	0.9	Yes	Thallium Sulfate	7446-18-6					4.0E-01	9.1E+01		4.0E-01			
				1.0E-02	I					3.4	1	0.9	Yes	Thiobencarb	28249-77-6					2.0E+02	7.7E+02		1.6E+02			
				7.0E-02	X					-0.63	1	1	Yes	Thiodiglycol	111-48-8					1.4E+03	9.6E+05		1.4E+03			
				3.0E-04	H					2.16	1	1	Yes	Thiofanox	39196-18-4					6.0E+00	4.4E+01		5.3E+00			
				8.0E-02	I					1.4	1	1	Yes	Thiophanate, Methyl	23564-05-8					1.6E+03	2.0E+05		1.6E+03			
				5.0E-03	I					1.73	1	1	Yes	Thiram	137-26-8					1.0E+02	4.0E+03		9.8E+01			
				6.0E-01	H						1	1	Yes	Tin	7440-31-5					1.2E+04	2.7E+06		1.2E+04			
						1.0E-04	A	V			1	1	Yes	Titanium tetrachloride	7550-45-0							2.1E-01	2.1E-01			
1.8E-01	X			8.0E-02	I	5.0E+00	I	V		2.73	1	1	Yes	Toluene	108-88-3					1.6E+03	5.3E+03	1.0E+04	1.1E+03	1.0E+03		
3.0E-02	P			2.0E-04	X					0.16	1	1	Yes	Toluene-2,5-diamine	95-70-5	4.3E-01	7.9E+01		4.3E-01	4.0E+00	8.3E+02		4.0E+00			
				4.0E-03	X					1.39	1	1	Yes	Toluidine, p-	106-49-0	2.6E+00	6.5E+01		2.5E+00	8.0E+01	2.3E+03		7.7E+01			
				3.0E+00	P			V		6.1	1	1	No	Total Petroleum Hydrocarbons (Aliphatic High)	NA					6.0E+04			6.0E+04			
						6.0E-01	P	V		3.9	1	1	Yes	Total Petroleum Hydrocarbons (Aliphatic Low)	NA							1.3E+03	1.3E+03			
				1.0E-02	X	1.0E-01	P	V		5.65	1	1	No	Total Petroleum Hydrocarbons (Aliphatic Medium)	NA					2.0E+02		2.1E+02	1.0E+02			
				4.0E-02	P					5.16	1	1	No	Total Petroleum Hydrocarbons (Aromatic High)	NA					8.0E+02			8.0E+02			
				4.0E-03	P	3.0E-02	P	V		2.13	1	1	Yes	Total Petroleum Hydrocarbons (Aromatic Low)	NA					8.0E+01	6.0E+02	6.3E+01	3.3E+01			
				4.0E-03	P	3.0E-03	P	V		3.58	1	1	Yes	Total Petroleum Hydrocarbons (Aromatic Medium)	NA					8.0E+01	9.0E+01	6.3E+00	5.5E+00			
1.1E+00	I	3.2E-04	I							5.9	1	0.8	Yes	Toxaphene	8001-35-2	7.1E-02	1.9E-02		1.5E-02					3.0E+00		
				7.5E-03	I					7.56	1	0.5	No	Traloxmethrin	68841-25-6					1.5E+02			1.5E+02			
				3.0E-04	A			V		4.1	1	0.9	Yes	Tr-n-butyltin	6888-73-3					6.0E+00	9.8E+00		3.7E+00			
				8.0E+01	X					0.25	1	1	Yes	Triacetin	102-76-1					1.6E+06	5.3E+08		1.6E+06			
				1.3E-02	I			V		4.6	1	0.9	Yes	Triallate	2303-17-5					2.6E+02	2.2E+02		1.2E+02			
				1.0E-02	I					1.1	1	1	Yes	Triasulfuron	82097-50-5					2.0E+02	6.0E+04		2.0E+02			
				5.0E-03	I			V		4.66	1	0.9	Yes	Tribromobenzene, 1,2,4-	615-54-3					1.0E+02	8.1E+01		4.5E+01			
				1.0E-02	P					4	1	0.9	Yes	Tributyl Phosphate	126-73-8	8.7E+00	1.2E+01		5.1E+00	2.0E+02	3.3E+02		1.2E+02			
				3.0E-04	P						1	0	No	Tributyltin Compounds	NA					6.0E+00			6.0E+00			
				3.0E-04	I					4.05	1	1	Yes	Tributyltin Chloride	58-35-9					6.0E+00	9.5E+01		5.7E+00			
7.0E-02	I			3.0E+01	I	3.0E+01	H	V		3.16	1	1	Yes	Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1					6.0E+05	1.9E+06	6.3E+04	5.5E+04			
				2.0E-02	I					1.33	1	1	Yes	Trichloroacetic Acid	76-03-9	1.1E+00	4.4E+01		1.1E+00	4.0E+02	1.8E+04		3.9E+02	6.0E+01		
2.9E-02	H									-0.67	1	1	Yes	Trichloroaniline HCl, 2,4,6-	33663-50-2	2.7E+00	3.6E+03		2.7E+00							
7.0E-03	X			3.0E-05	X					3.52	1	1	Yes	Trichloroaniline, 2,4,6-	634-93-5	1.1E+01	1.9E+01		7.0E+00	6.0E-01	1.2E+00		4.0E-01			
				8.0E-04	X			V		4.05	1	1	Yes	Trichlorobenzene, 1,2,3-	87-61-6					1.6E+01	1.3E+01		7.0E+00			
2.9E-02	P			1.0E-02	I	2.0E-03	P	V		4.02	1	1	Yes	Trichlorobenzene, 1,2,4-	120-82-1	2.7E+00	1.9E+00		1.1E+00	2.0E+02	1.6E+02	4.2E+00	4.0E+00	7.0E+01		
				2.0E+00	I	5.0E+00	I	V		2.49	1	1	Yes	Trichloroethane, 1,1,1-	71-55-6					4.0E+04	2.5E+05	1.0E+04	8.0E+03	2.0E+02		
5.7E-02	I	1.6E-05	I	4.0E-03	I	2.0E-04	X	V		1.89	1	1	Yes	Trichloroethane, 1,1,2-	79-00-5	1.4E+00	1.9E+01	3.5E-01	2.8E-01	8.0E+01	1.3E+03	4.2E-01	4.1E-01	5.0E+00		
4.6E-02	I	4.1E-06	I	5.0E-04	I	2.0E-03	I	V	M	2.																

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = APPENDIX PPRTV SCREEN (See FAQ #27); H = HEAST; J = New Jersey; O = EPA Office of Water; F = See FAQ; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; R = RBA applied (See User Guide for Arsenic notice) ; c = cancer; * = where n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1																													
Toxicity and Chemical-specific Information														Contaminant				Carcinogenic Target Risk (TR) = 1E-06				Noncancer CHILD Hazard Index (HI) = 1							
SFO (mg/kg-day) ⁻¹	k e y	IUR (ug/m ³ -y) ⁻¹	k e y	RfD ₀ (mg/kg-day)	k e y	RfC ₀ (mg/m ³)	k e y	v o l u t i l e	muta- gen	LOGP	GIABS	FA	In EPD?	Analyte	CAS No.	Ingestion SL TR=1.0E-6 (ug/L)	Dermal SL TR=1.0E-6 (ug/L)	Inhalation SL TR=1.0E-6 (ug/L)	Carcinogenic SL TR=1.0E-6 (ug/L)	Ingestion SL Child HQ=1 (ug/L)	Dermal SL Child HQ=1 (ug/L)	Inhalation SL Child HQ=1 (ug/L)	Noncarcinogenic SL Child HI=1 (ug/L)	MCL (ug/L)					
7.7E-03 2.0E-02	I P			2.0E+00 7.5E-03 1.0E-02	P I P					-1.75 5.34 -0.65	1 1 1	1 0.8 1	Yes Yes Yes	Triethylene Glycol Trifluralin Trimethyl Phosphate	112-27-6 1582-09-8 512-56-1	1.0E+01 3.9E+00	3.3E+00 2.7E+03		2.5E+00 3.9E+00	4.0E+04 1.5E+02 2.0E+02	1.8E+08 5.5E+01 1.6E+05		4.0E+04 4.0E+01 2.0E+02						
				5.0E-03 7.0E-03 1.0E-02	P V X					3.66 3.63 3.42	1 1 1	1 1 1	Yes Yes Yes	Trimethylbenzene, 1,2,3- Trimethylbenzene, 1,2,4- Trimethylbenzene, 1,3,5-	526-73-8 95-63-6 108-67-8						1.0E+01 1.5E+01 1.2E+02		1.0E+01 1.5E+01 1.2E+02						
3.0E-02	I			3.0E-02 5.0E-04 2.0E-02	I I P					1.18 1.6 2.83	1 1 1	1 1 1	Yes Yes Yes	Trinitrobenzene, 1,3,5- Trinitrotoluene, 2,4,6- Triphenylphosphine Oxide	99-35-4 118-96-7 /91-28-6	2.6E+00	1.0E+02		2.5E+00	6.0E+02 1.0E+01 4.0E+02	4.7E+04 4.5E+02 3.8E+03		5.9E+02 9.8E+00 3.6E+02						
2.3E+00	C	6.6E-04	C	2.0E-02 1.0E-02	A X					3.65 2.59 4.29	1 1 1	0.9 1 1	Yes Yes No	Tris(1,3-Dichloro-2-propyl) Phosphate Tris(1-chloro-2-propyl)phosphate Tris(2,3-dibromopropyl)phosphate	13674-87-8 12674-84-5 126-72-7	3.4E-02		8.5E-03	6.8E-03	4.0E+02 2.0E+02	3.2E+03 3.8E+03		3.6E+02 1.9E+02						
2.0E-02 3.2E-03	P P			7.0E-03 1.0E-01 3.0E-03	P P I					1.44 9.49	1 1 1	1 0 1	Yes No Yes	Tris(2-chloroethyl)phosphate Tris(2-ethylhexyl)phosphate Uranium (Soluble Salts)	115-96-8 78-42-2 NA	3.9E+00 2.4E+01	2.9E+02		3.8E+00 2.4E+01	1.4E+02 2.0E+03 6.0E+01	1.2E+04 2.0E+03 1.4E+04		1.4E+02 2.0E+03 6.0E+01	3.0E+01					
1.0E+00	C	2.9E-04	C	8.3E-03	P					9.0E-03 5.0E-03	I S	7.0E-06 1.0E-04	P A	M A	-0.15 0.026 0.026	1 1 1	1 1 1	Yes Yes Yes	Urethane Vanadium Pentoxide Vanadium and Compounds	51-79-6 1314-62-1 7440-62-2	2.5E-02	5.9E+00		2.5E-02	1.8E+02 1.0E+02	1.1E+03 6.0E+02	1.5E+02 8.6E+01		
				1.0E-03 2.5E-02 1.0E+00	I I H					3.84 3.1 0.73	1 1 1	1 0.9 1	Yes Yes Yes	Vinidate Vindzolin Vinyl Acetate	1929-77-7 50471-44-8 108-05-4					2.0E+01 5.0E+02 2.0E+04	2.5E+01 3.7E+03 1.4E+06		1.1E+01 4.4E+02 4.1E+02						
7.2E-01	I	3.2E-05 4.4E-06	H I	3.0E-03 3.0E-04	I I					3.0E-03 1.0E-01	I I	1.0E-01 1.0E-01	V V	M	1.57 1.62 2.7	1 1 1	1 1 1	Yes Yes Yes	Vinyl Bromide Vinyl Chloride Wartann	593-60-2 75-01-4 81-81-2	2.1E-02	2.7E-01	1.8E-01 3.4E-01	1.8E-01 1.9E-02	6.0E+01 6.0E+00	8.9E+02 8.4E+01	2.1E+02 2.1E+02	6.3E+00 4.4E+01 5.6E+00	2.0E+00
				2.0E-01 2.0E-01 2.0E-01	S S S					1.0E-01 1.0E-01 1.0E-01	S S S	1.0E-01 1.0E-01 1.0E-01	S V V		3.15 3.2 3.12	1 1 1	1 1 1	Yes Yes Yes	Xylene, p- Xylene, m- Xylene, o-	106-42-3 108-38-3 95-47-6				4.0E+03 4.0E+03 4.0E+03	7.6E+03 7.1E+03 8.0E+03	2.1E+02 2.1E+02 2.1E+02	1.9E+02 1.9E+02 1.9E+02		
				2.0E-01 3.0E-04 3.0E-01	I I I					1.0E-01 1.0E-01 1.0E-01	I I I	1.0E-01 1.0E-01 1.0E-01	V V V		3.16 1 1	1 1 1	1 1 1	Yes Yes Yes	Xylenes Zinc Phosphide Zinc and Compounds	1330-20-7 1314-84-7 7440-66-6				4.0E+03 6.0E+00 6.0E+03	7.5E+03 2.3E+03 2.3E+06	2.1E+02	1.9E+02 6.0E+00 6.0E+03	1.0E+04	
				5.0E-02 8.0E-05	I X					1.3 1	1 1	1 1	Yes Yes	Zinc Zirconium	12122-67-7 7440-67-7	1.0E+03 1.6E+00				9.7E+04 3.6E+02		9.9E+02 1.6E+00							

along the northeast edge of the San Agustin Plains closed basin; thence north along the east side of the north plains closed basin to the Continental Divide; thence northly along the Continental Divide to the community of Regina on State Highway 96; thence southeasterly along the crest of the San Pedro Mountains to Cerro Toledo Peak; thence southwesterly along the Sierra de Los Valles ridge and the Borrego Mesa to Bodega Butte; thence southerly to Angostura Diversion Dam which is the upper reach of the Rio Grande in this basin; thence southeast to the crest and the crest of the Manzano Mountains and the Los Pinos Mountains; thence southerly along the divide that contributes to the Rio Grande to San Marcial gauging station to the point and place of beginning; excluding all waters upstream of Jemez Pueblo which flow into the Jemez River drainage and the Bluewater Lake. Counties included in the basin are:

- (1) north portion of Socorro County;
- (2) northeast corner of Catron County;
- (3) east portion of Valencia County;
- (4) west portion of Bernalillo County;
- (5) east portion of McKinley County; and
- (6) most of Sandoval County.

[3-14-71, 9-3-72, 8-13-76, 2-20-81, 12-1-95; 20.6.2.2102 NMAC - Rn, 20 NMAC 6.2.II.2102, 1-15-01]

20.6.2.2103 - 20.6.2.2199: [RESERVED]

[12-1-95; 20.6.2.2103 - 20.6.2.2199 NMAC - Rn, 20 NMAC 6.2.II.2103-2199, 1-15-01]

20.6.2.2200 WATERCOURSE PROTECTION:

[12-1-95; 20.6.2.2200 NMAC - Rn, 20 NMAC 6.2.II.2200, 1-15-01]

20.6.2.2201 DISPOSAL OF REFUSE: No person shall dispose of any refuse in a natural watercourse or in a location and manner where there is a reasonable probability that the refuse will be moved into a natural watercourse by leaching or otherwise. Solids diverted from the stream and returned thereto are not subject to abatement under this Section.

[4-20-68, 9-3-72; 20.6.2.2201 NMAC - Rn, 20 NMAC 6.2.II.2201, 1-15-01]

20.6.2.2202 - 20.6.2.2999: [RESERVED]

[12-1-95; 20.6.2.2202 - 20.6.2.2999 NMAC - Rn, 20 NMAC 6.2.II.2202-3100, 1-15-01]

20.6.2.3000 PERMITTING AND GROUND WATER STANDARDS:

[12-1-95; 20.6.2.3000 NMAC - Rn, 20 NMAC 6.2.III, 1-15-01]

20.6.2.3001 - 20.6.2.3100: [RESERVED]

[12-1-95; 20.6.2.3001 - 20.6.2.3100 NMAC - Rn, 20 NMAC 6.2.II.2202-3100, 1-15-01]

20.6.2.3101 PURPOSE:

A. The purpose of Sections 20.6.2.3000 through 20.6.2.3114 NMAC controlling discharges onto or below the surface of the ground is to protect all ground water of the state of New Mexico which has an existing concentration of 10,000 mg/l or less TDS, for present and potential future use as domestic and agricultural water supply, and to protect those segments of surface waters which are gaining because of ground water inflow, for uses designated in the New Mexico Water Quality Standards. Sections 20.6.2.3000 through 20.6.2.3114 NMAC are written so that in general:

- (1) if the existing concentration of any water contaminant in ground water is in conformance with the standard of 20.6.2.3103 NMAC, degradation of the ground water up to the limit of the standard will be allowed; and
- (2) if the existing concentration of any water contaminant in ground water exceeds the standard of Section 20.6.2.3103 NMAC, no degradation of the ground water beyond the existing concentration will be allowed.

B. Ground water standards are numbers that represent the pH range and maximum concentrations of water contaminants in the ground water which still allow for the present and future use of ground water resources.

C. The standards are not intended as maximum ranges and concentrations for use, and nothing herein contained shall be construed as limiting the use of waters containing higher ranges and concentrations.

[2-18-77; 20.6.2.3101 NMAC - Rn, 20 NMAC 6.2.III.3101, 1-15-01]

20.6.2.3102: [RESERVED]

[12-1-95; 20.6.2.3102 NMAC - Rn, 20 NMAC 6.2.III.3102, 1-15-01]

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing

pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "*methods for chemical analysis of water and waste of the U.S. environmental protection agency*," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent.

Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1)	Arsenic (As).....	0.1 mg/l
(2)	Barium (Ba).....	1.0 mg/l
(3)	Cadmium (Cd).....	0.01 mg/l
(4)	Chromium (Cr).....	0.05 mg/l
(5)	Cyanide (CN).....	0.2 mg/l
(6)	Fluoride (F).....	1.6 mg/l
(7)	Lead (Pb).....	0.05 mg/l
(8)	Total Mercury (Hg).....	0.002 mg/l
(9)	Nitrate (NO ₃ as N).....	10.0 mg/l
(10)	Selenium (Se).....	0.05 mg/l
(11)	Silver (Ag).....	0.05 mg/l
(12)	Uranium (U).....	0.03 mg/l
(13)	Radioactivity: Combined Radium-226 & Radium-228.....	30 pCi/l
(14)	Benzene.....	0.01 mg/l
(15)	Polychlorinated biphenyls (PCB's).....	0.001 mg/l
(16)	Toluene.....	0.75 mg/l
(17)	Carbon Tetrachloride.....	0.01 mg/l
(18)	1,2-dichloroethane (EDC)	0.01 mg/l
(19)	1,1-dichloroethylene (1,1-DCE)	0.005 mg/l
(20)	1,1,2,2-tetrachloroethylene (PCE)	0.02 mg/l
(21)	1,1,2-trichloroethylene (TCE)	0.1 mg/l
(22)	ethylbenzene.....	0.75 mg/l
(23)	total xylenes.....	0.62 mg/l
(24)	methylene chloride.....	0.1 mg/l
(25)	chloroform.....	0.1 mg/l
(26)	1,1-dichloroethane.....	0.025 mg/l
(27)	ethylene dibromide (EDB)	0.0001 mg/l
(28)	1,1,1-trichloroethane.....	0.06 mg/l
(29)	1,1,2-trichloroethane.....	0.01 mg/l
(30)	1,1,2,2-tetrachloroethane.....	0.01 mg/l
(31)	vinyl chloride.....	0.001 mg/l
(32)	PAHs: total naphthalene plus monomethylnaphthalenes.....	0.03 mg/l
(33)	benzo-a-pyrene.....	0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1)	Chloride (Cl)	250.0 mg/l
(2)	Copper (Cu)	1.0 mg/l
(3)	Iron (Fe)	1.0 mg/l
(4)	Manganese (Mn)	0.2 mg/l
(6)	Phenols.....	0.005 mg/l
(7)	Sulfate (SO ₄)	600.0 mg/l
(8)	Total Dissolved Solids (TDS)	1000.0 mg/l
(9)	Zinc (Zn)	10.0 mg/l
(10)	pH.....	between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1)	Aluminum (Al).....	5.0 mg/l
(2)	Boron (B)	0.75 mg/l
(3)	Cobalt (Co)	0.05 mg/l

(4)	Molybdenum (Mo)	1.0 mg/l
(5)	Nickel (Ni)	0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]

20.6.2.3104 DISCHARGE PERMIT REQUIRED: Unless otherwise provided by this Part, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into ground water unless he is discharging pursuant to a discharge permit issued by the secretary. When a permit has been issued, discharges must be consistent with the terms and conditions of the permit. In the event of a transfer of the ownership, control, or possession of a facility for which a discharge permit is in effect, the transferee shall have authority to discharge under such permit, provided that the transferee has complied with Section 20.6.2.3111 NMAC, regarding transfers.

[2-18-77, 12-24-87, 12-1-95; Rn & A, 20.6.2.3104 NMAC - 20 NMAC 6.2.III.3104, 1-15-01; A, 12-1-01]

20.6.2.3105 EXEMPTIONS FROM DISCHARGE PERMIT REQUIREMENT: Sections 20.6.2.3104 and 20.6.2.3106 NMAC do not apply to the following:

- A. Effluent or leachate which conforms to all the listed numerical standards of Section 20.6.2.3103 NMAC and has a total nitrogen concentration of 10 mg/l or less, and does not contain any toxic pollutant. To determine conformance, samples may be taken by the agency before the effluent or leachate is discharged so that it may move directly or indirectly into ground water; provided that if the discharge is by seepage through non-natural or altered natural materials, the agency may take samples of the solution before or after seepage. If for any reason the agency does not have access to obtain the appropriate samples, this exemption shall not apply;
- B. Effluent which is regulated pursuant to 20.7.3 NMAC, "Liquid Waste Disposal and Treatment" regulations;
- C. Water used for irrigated agriculture, for watering of lawns, trees, gardens or shrubs, or for irrigation for a period not to exceed five years for the revegetation of any disturbed land area, unless that water is received directly from any sewerage system;
- D. Discharges resulting from the transport or storage of water diverted, provided that the water diverted has not had added to it after the point of diversion any effluent received from a sewerage system, that the source of the water diverted was not mine workings, and that the secretary has not determined that a hazard to public health may result;
- E. Effluent which is discharged to a watercourse which is naturally perennial; discharges to dry arroyos and ephemeral streams are not exempt from the discharge permit requirement, except as otherwise provided in this section;
- F. Those constituents which are subject to effective and enforceable effluent limitations in a National Pollutant Discharge Elimination System (NPDES) permit, where discharge onto or below the surface of the ground so that water contaminants may move directly or indirectly into ground water occurs downstream from the outfall where NPDES effluent limitations are imposed, unless the secretary determines that a hazard to public health may result. For purposes of this subsection, monitoring requirements alone do not constitute effluent limitations;
- G. Discharges resulting from flood control systems;
- H. Leachate which results from the direct natural infiltration of precipitation through disturbed materials, unless the secretary determines that a hazard to public health may result;
- I. Leachate which results entirely from the direct natural infiltration of precipitation through undisturbed materials;
- J. Leachate from materials disposed of in accordance with the Solid Waste Management Regulations (20 NMAC 9.1) adopted by the New Mexico Environmental Improvement Board;
- K. Natural ground water seeping or flowing into conventional mine workings which re-enters the ground by natural gravity flow prior to pumping or transporting out of the mine and without being used in any mining process; this exemption does not apply to solution mining;
- L. Effluent or leachate discharges resulting from activities regulated by a mining plan approved and permit issued by the New Mexico Coal Surface Mining Commission, provided that this exemption shall not be construed as limiting the application of appropriate ground water protection requirements by the New Mexico Coal Surface Mining Commission;
- M. Effluent or leachate discharges which are regulated by the Oil Conservation Commission and the regulation of which by the Water Quality Control Commission would interfere with the exclusive authority granted under Section 70-2-12 NMSA 1978, or under other laws, to the Oil Conservation Commission.

[2-18-77, 6-26-80, 7-2-81, 12-24-87, 12-1-95; 20.6.2.3105 NMAC - Rn, 20 NMAC 6.2.III.3105, 1-15-01; A, 12-1-01; A, 8-1-14]

20.6.2.3106 APPLICATION FOR DISCHARGE PERMITS AND RENEWALS:

- A. Any person who, before or on June 18, 1977, is discharging any of the water contaminants listed in 20.6.2.3103 NMAC or any toxic pollutant so that they may move directly or indirectly into ground water shall, within 120 days of receipt of written notice from the secretary that a discharge permit is required, or such longer time as the secretary shall for good cause allow, submit a discharge plan to the secretary for approval; such person may discharge without a discharge permit until 240 days after



APPENDIX C

FIELD INSPECTION LOGS

Client: Western Refining

Mailing Address:

Rt 3 Box 7

Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☐ Rush

Project Name

Q1-2014 Groundwater

Sampling

Project #:

Quarterly Sampling

Project Manager:

Cheryl Johnson

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature:

Air Bubbles (Y or N)

Date:

Time:

Relinquished by:

Received by:

Date _____

Time

Remarks:

Date:

Time:

Relinquished by:

Received by:

Date _____

Time

1

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

☐ Standard ☐ Rush

Rt 3 Box 7

Project Name	Q1-2014 Groundwater Sampling
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Project #:	Quarterly Sampling
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Project Manager:
Cheryl Johnson

☐ Standard ☐ Level 4 (Full Validation)

☒ NELAP ☐ Other

EDD (Type)

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.0

Date _____

Time

Matrix

Sample Request ID

Container
Type and #Preservative
Type

HEAL No.

8260B + MTBE

8015 (GRO/DRO)

WQCC Metals (Total and Dissolved)

major cations and anions

Air Bubbles (Y or N)

11114	0910
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GWM-1

x

x

X

x

10/14	6850
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w

FB-Group#2-

x

Date:	Time:
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7/12/14/110

Relinquished by:

to be considered

Received by:

1/1/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/

Date	Time
------	------

2/15/11

Remarks:

Date:	Time:
-------	-------

Relinquished by:

Received by:

Date _____ Time _____

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining

Mailing Address:

Rt 3 Box 7

Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP

☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard

☐ Rush

Project Name

Q1-2014 Groundwater

Sampling

Project #:

Quarterly Sampling

Project Manager:

Cheryl Johnson

Sampler:

On Ice:

☒ Yes

☐ No

Sample Temperature:

4.6

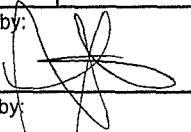
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4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975

Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8260 + MTBE	8021 + MTBE	8015B (DRO/GRO)	WQCC Metals (Total and Dissolved)	8270 + Phenols	major cations and anions	Total Cyanide								Air Bubbles (Y or N)
3/10/14	1225		NAPIS-1					x	x	x	x	x									
3/10/14	1020		NAPIS-2					x	x	x	x	x									
3/10/14	1145		NAPIS-3					x	x	x	x	x									
3/10/14	1110		KA-3					x	x	x	x	x									
3/10/14	1315		OAPIS-1				x		x	x	x	x	x								
3/10/14	0925	W	FB-Group#3-				x														
3/10/14	1020		QC									X									
Date:	Time:	Relinquished by:		Received by:		Date	Time	Remarks:													
3/10/14	1610	Don Reames				03/10/14	1610														
Date:	Time:	Relinquished by:		Received by:		Date	Time														

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Client: Western Refining

Mailing Address:

Rt 3 Box 7

Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☐ Rush

Project Name

Q1-2014 Groundwater

Sampling

Project #:

Quarterly Sampling

Project Manager:

Cheryl Johnson

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.8

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Analysis Request

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record				Turn-Around Time:		
Client: Western Refining				☐ Standard ☐ Rush		
Mailing Address: Rt 3 Box 7				Project Name: Q1-2014 Groundwater Sampling		
Gallup, NM 87301				Project #: Quarterly Sampling		
Phone #: 505-722-3833				Project Manager: Cheryl Johnson		
email or Fax#: 505-722-0210				Sampler:		
QA/QC Package:				On Ice: ☒ Yes ☐ No		
☐ Standard ☐ Level 4 (Full Validation)				Sample Temperature: 3.8		
Accreditation:				Date:		
☐ NELAP ☐ Other				Time:		
☐ EDD (Type)				Relinquished by:		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
3/7/14	1129	GW	OW-13			
3/7/14	1032	GW	OW-14			
3/7/14	951	GW	OW-29			
3/7/14	1405	GW	OW-30			
3/7/14	0905		FB-Group#5-			
3/7/14	0910		EQ-BLANK			
Date:	Time:	Relinquished by:		Received by:	Date	Time
3/7/14	1700	Don Deam		Anthony Gallardo	03/07	
Date:	Time:	Relinquished by:		Received by:	Date	Time

☐ Standard ☐ Rush

Q1-2014 Groundwater

Sampling

Quarterly Sampling

Cheryl Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 3-4

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Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
3/7/14	1700	Tom Glarus	Anthony Gallardo	03/07/14		
Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
					1700	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Chain-of-Custody Record

Client: We Refining

☒ Standard ☐ Rust

Mailing Address: Route 3 Box 7

Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type) Please provide EDD

Project Name:

OCD Central Landfarm Semiannual Sampling

Project #:

697-039-004

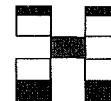
Project Manager:

Ed Riege

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 3-8



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

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Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	Vadose Zone List (see attached)	NMAC List (see attached)	BTEX (8260)											Air Bubbles (Y or N)
3/6/14	1000	soil	CentralOCD-01-3-6	4oz - 2	none		X													
3/6/14	0925	soil	CentralOCD-02-3-6	4oz - 2	none		X													
3/6/14	1050	soil	CentralOCD-03-3-6	4oz - 2	none		X													
3/6/14	0850	soil	CentralOCD-04-3-6	4oz - 2	none		X													
3/6/14		soil	BD-3-6	4oz - 2	none		X													
3/6/14	1000	soil	CentralOCD-01-3-6-MS	4oz - 2	none		X													
3/6/14	1000	soil	CentralOCD-01-3-6-MSD	4oz - 2	none		X													
3/6/14	1035	soil	CentralOCD-TZ-3-6	4oz - 3	none		X	X												
3/6/14	0830	water	EB-3-6	VOA - 3	HCL				X											
3/6/14	0820	water	FB-3-6	VOA - 3	HCL				X											
		water	Trip Blank	VOA - 3	HCL				X											

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
3/7/14	1700	Tom Flamer	Abby Hall	03/07/14	1700
Date:	Time:	Relinquished by:	Received by:	Date:	Time:

Remarks: Please cc Grant Price (gprice@trihydro.com) with results. Call Grant @ 307-745-7474 w/ questions. Verify that Reporting limits comply with those shown on the attached.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Client: <u>Western Refining</u>	☒ Standard ☐ Rush
Mailing Address: <u>RT3 Box 7</u>	Project Name: <u>Q1-2014 Groundwater Sampling</u>
<u>Gallup, NM 87301</u>	Project #: <u>Qtrly Sampling</u>
Phone #: <u>505-722-3833</u>	Project Manager: <u>Cheryl Johnson</u>
email or Fax#: <u>505-722-0210</u>	
QA/QC Package:	
☒ Standard ☐ Level 4 (Full Validation)	
Accreditation:	
☐ NELAP ☐ Other	
☒ EDD (Type) <u>Trihydro format</u>	Sampler: <u>Tom Fleener / Pak Landers</u>
	On Ice: ☒ Yes ☐ No
	Sample Temperature: <u>10</u>

Sample Temperature: 10



	X	X	X	X	8260B + MTBE
					8021 + MTBE
					8015B (DRO/GRO)
		X	X	X	WQCC Metals (Total and Dissolved)
			X	X	8270 + Phenols
	X	X	X	X	major cations and anions
		X	X	X	BOD and COD
		X	X	X	General chemistry (pH, cations, anions, spec. cond.)
					chlorides
					pH
					Nitrates
					Cyanide
		X	X	X	e-coli
					Air Bubbles (Y or N)

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/6/14	9:12	H. J. Walz	[Signature]	03/06/14	0912
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

Chain-of-Custody Record

Client: Western Refining

Mailing Address:

Rt 3 Box 7

Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type) Trinity format

Turn-Around Time:

☒ Standard ☐ Rush

Project Name

Q1-2014 Groundwater

Sampling

Project #:

Quarterly Sampling

Project Manager:

Cheryl Johnson

Sampler: Tom Deener / Pak Sanders

On Ice: ☒ Yes ☐ No

Sample Temperature:

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Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8260B + MTBE	8270 + Phenols	WOC Metals (Total and Dissolved)	BOD/COD	General chemistry (pH, cations, anions, spec. cond.)	E. Coli	major cations and anions	Air Bubbles (Y or N)
3/5/14			<u>HW</u> BW to EP-2											
3/5/14	09:10	H ₂ O	EP-1	12	HCl, H ₂ SO ₄ , HNO ₃ , + on		x	x	x	x	x	x	x	
3/5/14	10:20	H ₂ O	EP-2	11	" "		x	x	x	x	x	x	x	
			<u>HW</u> EP-3				x	x	x	x	x	x	x	
			<u>HW</u> EP-4				x	x	x	x	x	x	x	
			<u>HW</u> EP-5				x	x	x	x	x	x	x	
3/5/14	13:25	H ₂ O	EP-6	11	" "		x	x	x	x	x	x	x	
3/5/14	12:35	H ₂ O	EP-7	11	" "		x	x	x	x	x	x	x	
3/5/14	12:15	H ₂ O	EP-8	11	" "		x	x	x	x	x	x	x	
3/5/14	12:55	H ₂ O	EP-9	11	" "		x	x	x	x	x	x	x	
3/5/14	11:50	H ₂ O	EP-11	11	" "		x	x	x	x	x	x	x	
3/5/14	11:25	H ₂ O	EP-12A	11	" "		x	x	x	x	x	x	x	
3/5/14	11:00	H ₂ O	EP-12B	11	" "		x	x	x	x	x	x	x	
3/5/14	09:40	H ₂ O	STP-1 to EP-2	11	HCl, H ₂ SO ₄ , HNO ₃ , + on				x	x			x	
3/5/14	0855	H ₂ O	FB-Group#7-20140305	3	HCl		x							

Date: 3/5/14 Time: 1346 Relinquished by: H. J. Wal Received by: [Signature] Date: 3-5-14 Time: 1346

Remarks:

Page 1 of 2
- TDS on separate LOC
- 1 extra bottle for 8270 + Phenols for internal QC

Client: Western Refining

Mailing Address: RT 3 Box 7
Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

☒ Standard ☐ Rush

Project Name: Q1-2014 Groundwater Sampling

Project #: Quarterly Sampling

Project Manager:

Cheryl Johnson

Sampler:
On Ice: ☐ Yes ☐ No
Sample Temperature:



4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/5/14	1326	Hoy Walf		4-5-14	1326
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Page 2 of 2
* 1 TB per coder

Chain of Custody Record

Client: Western Refining

Mailing Address: Rt 3 Box 7
Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

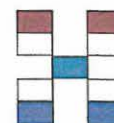
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Q1-2014 Groundwater Sampling

Project #:
Quarterly Sampling

Project Manager:
Cheryl Johnson



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8260B + MTBE	8021 + MTBE	8015B (DRO/GRO)	WQCC Metals (Total and Dissolved)	8270 + Phenols	major cations and anions	BOD and COD	General chemistry (pH, cations, anions, spec. cond.)	chlorides	pH	Nitrates	Cyanide	TDS	Air Bubbles (Y or N)
3/5/14	0910	H ₂ O	EP-1	1															X	
	0940	H ₂ O	STP-1 to EP-2	1															X	
	10:20	H ₂ O	EP-2	1															X	
	1100	H ₂ O	EP-12B	1															X	
	11:25	H ₂ O	EP-12A	1															X	
	11:50	H ₂ O	EP-11	1															X	
	12:15	H ₂ O	EP-B	1															X	
	12:35	H ₂ O	EP-7	1															X	
	12:55	H ₂ O	EP-9	1															X	
	1:35	H ₂ O	EP-6	1															X	

Date: 3/5/14 Time: 1346 Relinquished by: [Signature]

Date: 4/5/14 Time: 1324 Received by: [Signature]

Remarks:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

EP-1

EP-1		TEST PARAMETERS							
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	7.42	6.73	5.35 mS	5.341	4.65	999.9	-247.0
GAUGE TIME	---	(2)							
DTB (feet)	---	(3)							
Depth to Bottom	---								
DEDICATED PUMP	---								
DTW (feet)	---	WEATHER CONDITIONS cool (~50), breezy, sunny							
Depth to Water	---								
DTB - DTW	---								
Capacity per foot	---								
1 Well Volume	---								
3 Well Volumes	---	WATER APPEARANCE light brown, slight odor							
PURGE DATE	---								
PURGE TIME	---								
SAMPLE DAY	3/5/14								
SAMPLE TIME	0910								
PUMP DEPTH	---								
DTW (feet)	---								
at end of Purging	---								

SAMPLE LOG

sampled @ 0910

STP-1 to EP-2		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/5/14	(1)	0940	8.28	20.03	4.16 mS	3.051	2.48	999.9	-325.4
GAUGE TIME	---	(2)								
DTB (feet)	---	(3)								
Depth to Bottom	---	(4)								
DEDICATED PUMP	---									
DTW (feet)	---	WEATHER CONDITIONS								
Depth to Water	---									
DTB - DTW	---									
Capacity per foot	---									
1 Well Volume	---									
3 Well Volumes	---	WATER APPEARANCE light green, strong odor								
PURGE DATE	---									
PURGE TIME	---									
SAMPLE DAY	3/5/14									
SAMPLE TIME	0940									
PUMP DEPTH	---									
DTW (feet)	---									
at end of Purging	---									

SAMPLE LOG

sampled @ 0940

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

EP-2

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	10:20	8.31	9.06	6.149 mS	5.79	4.98	27.6	-317.2
GAUGE TIME		(2)								
DTB (feet)		(3)								
Depth to Bottom										
DEDICATED PUMP										
DTW (feet)		WEATHER CONDITIONS								
Depth to Water										
DTB - DTW										
Capacity per foot										
1 Well Volume										
3 Well Volumes		sunny, cool (~50)								
PURGE DATE										
PURGE TIME										
SAMPLE DAY	3/5/14									
SAMPLE TIME	10:20									
PUMP DEPTH		WATER APPEARANCE								
DTW (feet)										
at end of Purging										

SAMPLE LOG

sampled @ 10:20

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	11:00	8.54	10.04	6.143 mS	5.607	4.83	22.7	-183.2
GAUGE TIME		(2)								
DTB (feet)		(3)								
Depth to Bottom		(4)								
DEDICATED PUMP										
DTW (feet)		WEATHER CONDITIONS								
Depth to Water										
DTB - DTW										
Capacity per foot										
1 Well Volume										
3 Well Volumes		Sunny, cool (~50°F)								
PURGE DATE										
PURGE TIME										
SAMPLE DAY	3/5/14									
SAMPLE TIME	11:00									
PUMP DEPTH		WATER APPEARANCE								
DTW (feet)										
at end of Purging										

12B

SAMPLE LOG

Silty, no odor

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

12A

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1125	8.41	16.23	6.399 mS	5.784	4.97	22.6	-83.6
GAUGE TIME	---	(2)								
DTB (feet)	---	(3)								
Depth to Bottom	---									
DEDICATED PUMP	---									
DTW (feet)	---	WEATHER CONDITIONS Sunny, cool (~50°F)								
Depth to Water	---									
DTB - DTW	---									
Capacity per foot	---									
1 Well Volume	---									
3 Well Volumes	---	WATER APPEARANCE Light Red No odor								
PURGE DATE	---									
PURGE TIME	---									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1125									
PUMP DEPTH										
DTW (feet)										
at end of Purging										

SAMPLE LOG

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1150	8.17	9.99	24.61 mS	22.45	21.64	58.0	-60.0
GAUGE TIME	---	(2)								
DTB (feet)	---	(3)								
Depth to Bottom	---	(4)								
DEDICATED PUMP	---									
DTW (feet)	---	WEATHER CONDITIONS Sunny, cool (~50°F)								
Depth to Water	---									
DTB - DTW	---									
Capacity per foot	---									
1 Well Volume	---									
3 Well Volumes	---	WATER APPEARANCE Silty, No odor								
PURGE DATE	---									
PURGE TIME	---									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1150									
PUMP DEPTH										
DTW (feet)										
at end of Purging										

SAMPLE LOG

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

7

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1215	8.02	8.94	74.31	69.98	77.41	155.2	-55.4
GAUGE TIME	—	(2)				ms				
DTB (feet)	—	(3)								
Depth to Bottom	—									
DEDICATED PUMP	—									
DTW (feet)	—	WEATHER CONDITIONS Sunny, cool (~50°F) Breezy								
Depth to Water	—									
DTB - DTW	—									
Capacity per foot	—									
1 Well Volume	—									
3 Well Volumes	—									
PURGE DATE	—	WATER APPEARANCE Lime Green NO odor								
PURGE TIME	—									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1215									
PUMP DEPTH	—									
DTW (feet) at end of Purging	—									

SAMPLE LOG

8

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1235	8.02	9.01	69.38	69.39	77.17	153.3	-48.9
GAUGE TIME	—	(2)				ms				
DTB (feet)	—	(3)								
Depth to Bottom	—	(4)								
DEDICATED PUMP	—									
DTW (feet)	—	WEATHER CONDITIONS Sunny, cool (~50°F) Breezy								
Depth to Water	—									
DTB - DTW	—									
Capacity per foot	—									
1 Well Volume	—									
3 Well Volumes	—									
PURGE DATE	—	WATER APPEARANCE Light Green NO odor								
PURGE TIME	—									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1235									
PUMP DEPTH	—									
DTW (feet) at end of Purging	—									

SAMPLE LOG

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

9

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1255	7.78	9.11	90.07 ms	84.16	97.38	20.8	-35.0
GAUGE TIME	—	(2)								
DTB (feet)	—	(3)								
Depth to Bottom	—									
DEDICATED PUMP	—									
DTW (feet)	—	WEATHER CONDITIONS Sunny, cool (~50°F) Breezy								
Depth to Water	—									
DTB - DTW	—									
Capacity per foot	—									
1 Well Volume	—									
3 Well Volumes	—									
PURGE DATE	—	WATER APPEARANCE Silty No odor								
PURGE TIME	—									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1255									
PUMP DEPTH	—									
DTW (feet) at end of Purging	—									

SAMPLE LOG

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1325	8.47	8.94	16.89	15.81	14.69	21.8	-79.9
GAUGE TIME	—	(2)								
DTB (feet)	—	(3)								
Depth to Bottom	—	(4)								
DEDICATED PUMP	—									
DTW (feet)	—	WEATHER CONDITIONS Sunny, cool (~50°F) Breezy								
Depth to Water	—									
DTB - DTW	—									
Capacity per foot	—									
1 Well Volume	—									
3 Well Volumes	—									
PURGE DATE	—	WATER APPEARANCE Silty, Light Red No odor								
PURGE TIME	—									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1325									
PUMP DEPTH	—									
DTW (feet) at end of Purging	—									

EP-6

SAMPLE LOG

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

EP-5

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1425	8.38	8.39	12.27 ms	11.66	10.57	27.0	-211.4
GAUGE TIME	—	(2)								
DTB (feet)	—	(3)								
Depth to Bottom	—									
DEDICATED PUMP	—									
DTW (feet)	—	WEATHER CONDITIONS Sunny, cool (~50°F) Breezy								
Depth to Water	—									
DTB - DTW	—									
Capacity per foot	—									
1 Well Volume	—									
3 Well Volumes	—									
PURGE DATE	—	WATER APPEARANCE Silty, no odor								
PURGE TIME	—									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1425									
PUMP DEPTH	—									
DTW (feet) at end of Purging	—									

SAMPLE LOG

EP-4

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1450	8.39	11.08	11.40 ms	10.07	9.06	31.9	-276.7
GAUGE TIME	—	(2)								
DTB (feet)	—	(3)								
Depth to Bottom	—									
DEDICATED PUMP	—	(4)								
DTW (feet)	—	WEATHER CONDITIONS Sunny, warm (~50°F) Breezy								
Depth to Water	—									
DTB - DTW	—									
Capacity per foot	—									
1 Well Volume	—									
3 Well Volumes	—									
PURGE DATE	—	WATER APPEARANCE Silty slight odor								
PURGE TIME	—									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1450									
PUMP DEPTH	—									
DTW (feet) at end of Purging	—									

SAMPLE LOG

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

EP-3

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1530	8.43	14.64	11.08 ms	8.988	8.03	25.0	-282.1
GAUGE TIME	---	(2)								
DTB (feet)	---	(3)								
Depth to Bottom	---									
DEDICATED PUMP	---									
DTW (feet)	---	WEATHER CONDITIONS Sunny, warm (~50°F)								
Depth to Water	---									
DTB - DTW	---									
Capacity per foot	---									
1 Well Volume	---									
3 Well Volumes	---									
PURGE DATE	---	WATER APPEARANCE Silty, no odor								
PURGE TIME	---									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1530									
PUMP DEPTH	---									
DTW (feet)	---									
at end of Purging	---									

SAMPLE LOG

BW to EP-2

		TEST PARAMETERS								
			Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3/5/14	(1)	1545	8.61	18.37	7.278 ms	5.426	4.66	73.6	-68.0
GAUGE TIME	---	(2)								
DTB (feet)	---	(3)								
Depth to Bottom	---	(4)								
DEDICATED PUMP	---									
DTW (feet)	---	WEATHER CONDITIONS Sunny, warm								
Depth to Water	---									
DTB - DTW	---									
Capacity per foot	---									
1 Well Volume	---									
3 Well Volumes	---									
PURGE DATE	---	WATER APPEARANCE Clear, no odor								
PURGE TIME	---									
SAMPLE DAY	3/5/14									
SAMPLE TIME	1545									
PUMP DEPTH	---									
DTW (feet)	---									
at end of Purging	---									

SAMPLE LOG

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

Ow-29		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS) (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/7/14	(1)	0930	9.36	12.72	1.386	1.178	0.43	69.4	-116.0
GAUGE TIME	0910	(2)	0937	8.61	12.86	1.171	0.42	18.0	-117.6	
DTB (feet)		(3)	0934	8.61	12.76	1.384	0.42	18.2	-110.1	
Depth to Bottom	51.08	(4)	0950	8.50	12.85	1.391	0.44	18.4	-93.8	
DEDICATED PUMP	✓	WEATHER CONDITIONS Cool, Breezy								
DTW (feet)										
Depth to Water	19.85									
DTB - DTW	32.23									
Capacity per foot	0.65									
1 Well Volume	20.95	WATER APPEARANCE Clear No odor								
3 Well Volumes	62.84									
PURGE DATE	3-7-14									
PURGE TIME										
SAMPLE DAY	3-7-14									
SAMPLE TIME	0951									
PUMP DEPTH										
DTW (feet)										
at end of Purging										

SAMPLE LOG

motor Freq = 153 Hz

Ow-14		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS) (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/7/14	(1)	1017	9.25	13.56	1.830	1.522	1.21	36.8	-169.0
GAUGE TIME	1013	(2)	1022	8.81	13.52	1.813	1.511	1.20	27.6	-160.6
DTB (feet)		(3)	1024	8.63	12.95	1.823	1.523	1.21	36.0	-156.4
Depth to Bottom	46.52	(4)	1031	8.50	12.72	1.821	1.523	1.21	35.0	-154.0
DEDICATED PUMP	✓	WEATHER CONDITIONS Cool, Breezy								
DTW (feet)										
Depth to Water	24.12									
DTB - DTW	22.4									
Capacity per foot	0.65									
1 Well Volume	14.56	WATER APPEARANCE Clear moderate odor								
3 Well Volumes	43.68									
PURGE DATE	3-7-14									
PURGE TIME	1015									
SAMPLE DAY	3/7/14									
SAMPLE TIME	1032									
PUMP DEPTH										
DTW (feet)										
at end of Purging										

SAMPLE LOG

motor Freq = 181 Hz

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

OW-13		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (μS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/7/14	(1)	1050	9.27	12.44	0.941	0.805	0.62	45.0	-96.2
GAUGE TIME	1040	(2)	1102	9.42	12.59	0.950	0.807	0.62	31.3	-88.2
DTB (feet)	99.15	(3)	1110	9.36	12.61	0.951	0.807	0.62	39.2	-104.0
Depth to Bottom			1128	9.46	12.45	0.960	0.811	0.63	45.1	-68.5
DEDICATED PUMP	✓	WEATHER CONDITIONS Light rain, breezy, 48°F								
DTW (feet)	21.77									
Depth to Water	77.38									
DTB - DTW	56.30									
Capacity per foot	151									
1 Well Volume	56.30									
PURGE DATE	3/7/14	WATER APPEARANCE Clear moderate odor								
PURGE TIME										
SAMPLE DAY	3/7/14									
SAMPLE TIME	1129									
PUMP DEPTH										
DTW (feet) at end of Purging										

SAMPLE LOG

motor Freq = 300 Hz

OW-1		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (μS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/7/14	(1)	1200	9.79	11.83	1.004	0.871	0.67	16.4	-62.2
GAUGE TIME	1150	(2)	1206	9.44	11.58	0.999	0.871	0.67	17.7	-70.0
DTB (feet)	44.55	(3)	1221	9.98	11.61	0.994	0.867	0.67	17.7	-96.8
Depth to Bottom			1235	10.07	12.75	1.034	0.875	0.68	14.5	-77.3
DEDICATED PUMP	✓	WEATHER CONDITIONS Cool, Breezy, 48°F								
DTW (feet)	0.00									
Depth to Water	94.55									
DTB - DTW	0.65									
Capacity per foot	184.4									
1 Well Volume	184.4									
PURGE DATE	3/7/14	WATER APPEARANCE Started Murky then cleared up after 10 mins								
PURGE TIME										
SAMPLE DAY	3/7/14									
SAMPLE TIME	1238									
PUMP DEPTH										
DTW (feet) at end of Purging										

SAMPLE LOG

motor Freq = 133 Hz

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

OW-10		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity μ S/cm (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/7/14	(1)	1302	9.71	12.89	1.515	1.276	1.01	53.1	-47.6
GAUGE TIME	1255	(2)	1308	8.98	12.91	4.847	4.899	3.46	37.7	-45.1
DTB (feet)	60.33	(3)	1314	8.78	12.53	4.416	3.741	3.14	38.7	-47.1
Depth to Bottom			1321	8.75	12.75	4.054	3.436	2.87	34.6	-45.5
DEDICATED PUMP	✓	WEATHER CONDITIONS Windy, cool ~ 48°F								
DTW (feet)	0.00									
Depth to Water										
DTB - DTW	60.33									
Capacity per foot	0.65									
1 Well Volume	34.21	WATER APPEARANCE Clear moderate odor								
3 Well Volumes	117.63									
PURGE DATE	3/7/14									
PURGE TIME	1300									
SAMPLE DAY	3/7/14									
SAMPLE TIME	1325									
PUMP DEPTH										
DTW (feet)										
at end of Purging										

SAMPLE LOG

motor Freq = 305 Hz

OW-30		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity μ S/cm (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3/7/14	(1)	1400	9.49	12.69	1.444	1.225	.96	35.6	-60.0
GAUGE TIME	1352	(2)	1350	9.36	12.61	1.446	1.226	.96	46.4	-61.2
DTB (feet)	44.90	(3)	1359	9.15	12.24	1.431	1.223	.96	47.9	-65.6
Depth to Bottom			1402	9.07	12.50	1.443	1.230	.97	47.8	-62.6
DEDICATED PUMP	✓	WEATHER CONDITIONS Windy, cool ~ 48°F								
DTW (feet)	23.42									
Depth to Water										
DTB - DTW	21.48									
Capacity per foot	1.271.65									
1 Well Volume	17.21	WATER APPEARANCE Clear, then muddy No odor								
3 Well Volumes	51.63									
PURGE DATE	3/7/14									
PURGE TIME	1354									
SAMPLE DAY	3/7/14									
SAMPLE TIME	1405									
PUMP DEPTH										
DTW (feet)										
at end of Purging										

SAMPLE LOG

motor Freq = 307

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

		TEST PARAMETERS							
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3-10-14	(1)							
GAUGE TIME	0840	(2)							
DTB (feet) Depth to Bottom		(3)							
DEDICATED PUMP			WEATHER CONDITIONS						
DTW (feet) Depth to Water	DRY								
DTB - DTW									
Capacity per foot									
1 Well Volume									
3 Well Volumes									
PURGE DATE		WATER APPEARANCE							
PURGE TIME									
SAMPLE DAY									
SAMPLE TIME									
PUMP DEPTH									
DTW (feet) at end of Purging									

SAMPLE LOG WELL DRY

OIL SUMP
LDU

		TEST PARAMETERS							
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
GAUGE DATE	3-10-14	(1)							
GAUGE TIME	0847	(2)							
DTB (feet) Depth to Bottom		(3)							
DEDICATED PUMP		(4)	WEATHER CONDITIONS						
DTW (feet) Depth to Water	3.2								
DTB - DTW									
Capacity per foot									
1 Well Volume									
3 Well Volumes									
PURGE DATE		WATER APPEARANCE							
PURGE TIME									
SAMPLE DAY	3-10-14								
SAMPLE TIME	0850								
PUMP DEPTH									
DTW (feet) at end of Purging									

SAMPLE LOG

CLEAR, COOL

YELLOW

EAST LDU

INSTRUMENTS USED:

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

WEST LDU		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3-10-14	(1)								
GAUGE TIME	0906	(2)								
DTB (feet) Depth to Bottom		(3)								
DEDICATED PUMP			WEATHER CONDITIONS							
DTW (feet) Depth to Water	5.6									
DTB - DTW										
Capacity per foot										
1 Well Volume										
3 Well Volumes		WATER APPEARANCE								
PURGE DATE										
PURGE TIME										
SAMPLE DAY	3-10-14									
SAMPLE TIME	0910									
PUMP DEPTH		GRAY								
DTW (feet) at end of Purging										

SAMPLE LOG

NAPIS-2		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3-10-14	(1)	1012	9.76	16.13	1.776	1.388	1.10	38.6	-280.1
GAUGE TIME	1007	(2)	1014	9.44	17.60	1.864	1.412	1.12	28.6	-174.1
DTB (feet)		(3)	1016	9.18	17.92	1.875	1.410	1.12	26.0	-161.5
Depth to Bottom	13.62	(4)	1018	9.04	18.25	1.826	1.371	1.08	25.9	-158.0
DEDICATED PUMP			WEATHER CONDITIONS							
DTW (feet) Depth to Water	8.03									
DTB - DTW	5.58									
Capacity per foot	0.16									
1 Well Volume	0.89									
3 Well Volumes	2.7	WATER APPEARANCE								
PURGE DATE	3-10-14									
PURGE TIME										
SAMPLE DAY	3-10-14									
SAMPLE TIME	1020									
PUMP DEPTH		CLEAR								
DTW (feet) at end of Purging										

QC. AMBER

SAMPLE LOG

~ 6" OF SURFACE WATER IN CASING
EMPTIED PRIOR TO OPENING WELL

INSTRUMENTS USED: BAKER, YSI METER

Signature:

WESTERN REFINING - GALLUP REFINERY
Q1-2014

KR-3		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3-10-14	(1)	1045	9.62	19.26	1.780	1.289	1.01	42.0	-67.9
GAUGE TIME	1042	(2)	1048	9.35	19.55	1.719	1.247	0.98	21.0	-51.0
DTB (feet)	23.20	(3)	1056	9.06	19.52	1.649	1.141	0.93	44.4	-61.5
Depth to Bottom	23.20		1104	9.12	19.60	1.733	1.269	0.99	43.0	-50.8
DEDICATED PUMP	—	WEATHER CONDITIONS CLEAR, WARM								
DTW (feet)	8.03									
Depth to Water	15.17									
DTB - DTW	0.16									
Capacity per foot	2.4									
1 Well Volume	7.3	WATER APPEARANCE CLEAR, NO ODOR								
3 Well Volumes	21.9									
PURGE DATE	3-10-14									
PURGE TIME										
SAMPLE DAY	3-10-14									
SAMPLE TIME	1110	WATER APPEARANCE CLEAR, NO ODOR								
PUMP DEPTH										
DTW (feet)										
at end of Purging										
SAMPLE LOG	~ 4" SURFACE WATER IN CASING EMPTIED PRIOR TO OPENING WELL									

NAPIS-3		TEST PARAMETERS								
		Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)	
GAUGE DATE	3-10-14	(1)	1130	9.37	18.36	3.905	2.904	2.40	126.3	-70.1
GAUGE TIME	1125	(2)	1138	9.48	18.44	4.025	2.990	2.47	58.5	-70.6
DTB (feet)	30.42	(3)								
Depth to Bottom	30.42	(4)								
DEDICATED PUMP	—	WEATHER CONDITIONS CLEAR, WARM								
DTW (feet)	8.90									
Depth to Water	21.52									
DTB - DTW	0.16									
Capacity per foot	3.45									
1 Well Volume	10.32	WATER APPEARANCE CLOUDY, LT. RED								
3 Well Volumes	31.32									
PURGE DATE	3-10-14									
PURGE TIME										
SAMPLE DAY	3-10-14									
SAMPLE TIME	1145	WATER APPEARANCE CLOUDY, LT. RED								
PUMP DEPTH										
DTW (feet)										
at end of Purging										
SAMPLE LOG	~ 4" SURFACE WATER IN CASING EMPTIED PRIOR TO OPENING WELL WELL PURGED DRY @ 5 GAL ~ SAMPLED									

SAMPLE LOG ~ 4" SURFACE WATER IN CASING EMPTIED PRIOR TO OPENING WELL

WELL PURGED DRY @ 5 GAL ~ SAMPLED

INSTRUMENTS USED: BAILER, YSI METER

Signature: