

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS# PAL ENF STD	Date Changed
<u>77493</u>	<u>ALPHA-TERPINEOL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>ALPHA-TERPINEOL</u>	<u>ug/L</u>	<u>98-55-5</u>	<u>1/11/2005</u>
<u>99753</u>	<u>CIS-DIALLATE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>CIS-DIALLATE</u>	<u>ug/L</u>	<u>17708-57-5</u>	<u>2/18/2005</u>
<u>99754</u>	<u>TRANS-DIALLATE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>TRANS-DIALLATE</u>	<u>ug/L</u>	<u>17708-58-6</u>	<u>2/18/2005</u>
<u>77655</u>	<u>2-CHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#001</u>	<u>ug/L</u>	<u>2051-60-7</u>	<u>3/29/2005</u>
<u>99755</u>	<u>2,3-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#005</u>	<u>ug/L</u>	<u>16605-91-7</u>	<u>3/29/2005</u>
<u>99756</u>	<u>2,4'-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#008</u>	<u>ug/L</u>	<u>34883-43-7</u>	<u>3/29/2005</u>
<u>85704</u>	<u>2,2',5-TRICHLOROBIPHENYL IN WHOLE WATER SAMPL(UG/L)</u>	<u>PCB CONG#018</u>	<u>ug/L</u>	<u>37680-65-2</u>	<u>3/29/2005</u>
<u>77812</u>	<u>2,4',5-TRICHLOROBIPHENYL IN WHOLE WATER SAMPL(UG/L)</u>	<u>PCB CONG#031</u>	<u>ug/L</u>	<u>16606-02-3</u>	<u>3/29/2005</u>
<u>77841</u>	<u>2,2',3,5'-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#044</u>	<u>ug/L</u>	<u>41464-39-5</u>	<u>3/29/2005</u>
<u>85714</u>	<u>2,2',5,5'-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#052</u>	<u>ug/L</u>	<u>35693-99-3</u>	<u>3/29/2005</u>
<u>77838</u>	<u>2,3',4,4'-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#066</u>	<u>ug/L</u>	<u>32598-10-0</u>	<u>3/29/2005</u>
<u>77837</u>	<u>3,3',4,4'-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#077</u>	<u>ug/L</u>	<u>32598-13-3</u>	<u>3/29/2005</u>
<u>99757</u>	<u>3,4,4',5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#081</u>	<u>ug/L</u>	<u>70362-50-4</u>	<u>3/29/2005</u>
<u>77876</u>	<u>2,2',3,4,5'-PENTACHLOROBIPHENYL IN WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#087</u>	<u>ug/L</u>	<u>38380-02-8</u>	<u>3/29/2005</u>
<u>77880</u>	<u>2,2',3,5',6-PENTACHLOROBIPHENYL IN WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#095</u>	<u>ug/L</u>	<u>38379-99-6</u>	<u>3/29/2005</u>
<u>77874</u>	<u>2,2',4,5,5'-PENTACHLOROBIPHENYL IN WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#101</u>	<u>ug/L</u>	<u>37680-73-2</u>	<u>3/29/2005</u>
<u>99758</u>	<u>2,3,3',4',6-PENTACHLOROBIPHENYL IN WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#110</u>	<u>ug/L</u>	<u>38380-03-9</u>	<u>3/29/2005</u>
<u>85732</u>	<u>2,3',4,4',5-PENTACHLOROBIPHENYL IN WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#118</u>	<u>ug/L</u>	<u>31508-00-6</u>	<u>3/29/2005</u>
<u>85735</u>	<u>22'344'5'/233'4'56-HEXACHLOROBIPHENYLWHWTRSMPL(UG/L)</u>	<u>PCB CONG#138/163</u>	<u>ug/L</u>		<u>3/29/2005</u>
<u>77898</u>	<u>2,2',3,4,5,5'-HEXACHLOROBIPHENYL WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#141</u>	<u>ug/L</u>	<u>52712-04-6</u>	<u>3/29/2005</u>
<u>85729</u>	<u>2,2',3,5,5',6-HEXACHLOROBIPHENYL WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#151</u>	<u>ug/L</u>	<u>52663-63-5</u>	<u>3/29/2005</u>
<u>77893</u>	<u>2,2',4,4',5,5'-HEXACHLOROBIPHENYL WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#153</u>	<u>ug/L</u>	<u>35065-27-1</u>	<u>3/29/2005</u>
<u>99172</u>	<u>2,3',4,4',5,5'-HEXACHLOROBIPHENYL WHLWTRSMPL(UG/L)</u>	<u>PCB CONG#167</u>	<u>ug/L</u>	<u>52663-72-6</u>	<u>3/29/2005</u>
<u>99759</u>	<u>2,2',3,3',4,4',5-HEPTACHLOROBIPHENYL WHWTRSMPL(UG/L)</u>	<u>PCB CONG#170</u>	<u>ug/L</u>	<u>35065-30-6</u>	<u>3/29/2005</u>
<u>85744</u>	<u>2,2',3,4,4',5,5'-HEPTACHLOROBIPHENYL WHWTRSMPL(UG/L)</u>	<u>PCB CONG#180</u>	<u>ug/L</u>	<u>35065-29-3</u>	<u>3/29/2005</u>
<u>99760</u>	<u>2,2',3,4,4',5,6'-HEPTACHLOROBIPHENYL WHWTRSMPL(UG/L)</u>	<u>PCB CONG#182</u>	<u>ug/L</u>	<u>60145-23-5</u>	<u>3/29/2005</u>
<u>85739</u>	<u>2,2',3,4,4',5,6'-HEPTACHLOROBIPHENYL WHWTRSMPL(UG/L)</u>	<u>PCB CONG#183</u>	<u>ug/L</u>	<u>52663-69-1</u>	<u>3/29/2005</u>
<u>99761</u>	<u>2,2',3,4,4',6,6'-HEPTACHLOROBIPHENYL WHWTRSMPL(UG/L)</u>	<u>PCB CONG#184</u>	<u>ug/L</u>	<u>74472-48-3</u>	<u>3/29/2005</u>
<u>99762</u>	<u>2,2',3,4',5,5',6-HEPTACHLOROBIPHENYL WHWTRSMPL(UG/L)</u>	<u>PCB CONG#187</u>	<u>ug/L</u>	<u>5266-36-80</u>	<u>3/29/2005</u>
<u>85750</u>	<u>2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL WWS(UG/L)</u>	<u>PCB CONG#206</u>	<u>ug/L</u>	<u>40186-72-9</u>	<u>3/29/2005</u>
<u>99779</u>	<u>ACROLEIN IN AIR SAMPLE (NL/L)</u>	<u>ACROLEIN</u>	<u>nL/L</u>	<u>107-02-8</u>	<u>5/2/2005</u>
<u>99769</u>	<u>METHYL IODIDE IN AIR SAMPLE (NL/L)</u>	<u>METHYL IODIDE</u>	<u>nL/L</u>	<u>74-88-4</u>	<u>5/2/2005</u>
<u>99970</u>	<u>ALLYL CHLORIDE IN AIR SAMPLE (NL/L)</u>	<u>ALLYL CHLORIDE</u>	<u>nL/L</u>	<u>107-05-1</u>	<u>5/2/2005</u>
<u>99770</u>	<u>ACETONITRILE IN AIR SAMPLE (NL/L)</u>	<u>ACETONITRILE</u>	<u>nL/L</u>	<u>75-05-8</u>	<u>5/2/2005</u>
<u>99771</u>	<u>ACRYLONITRILE IN AIR SAMPLE (NL/L)</u>	<u>ACRYLONITRILE</u>	<u>nL/L</u>	<u>107-13-1</u>	<u>5/2/2005</u>
<u>99348</u>	<u>CHLOROPRENE IN AIR SAMPLE (NL/L)</u>	<u>CHLOROPRENE</u>	<u>nL/L</u>	<u>126-99-8</u>	<u>5/2/2005</u>
<u>99772</u>	<u>PROPIONITRILE IN AIR SAMPLE (NL/L)</u>	<u>PROPIONITRILE</u>	<u>nL/L</u>	<u>107-12-0</u>	<u>5/2/2005</u>
<u>99773</u>	<u>METHACRYLONITRILE IN AIR SAMPLE (NL/L)</u>	<u>MTHACRYLONITRILE</u>	<u>nL/L</u>	<u>126-98-7</u>	<u>5/2/2005</u>

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<u>99774</u>	<u>ISOBUTYL ALCOHOL IN AIR SAMPLE (NL/L)</u>	<u>ISOBUTYL ALCOHOL</u>	<u>nL/L</u>	<u>78-83-1</u>				<u>5/2/2005</u>
<u>99775</u>	<u>METHYL METHACRYLATE IN AIR SAMPLE (NL/L)</u>	<u>MTHLMETHACRYLATE</u>	<u>nL/L</u>	<u>80-62-6</u>				<u>5/2/2005</u>
<u>99776</u>	<u>2-CHLOROETHYL VINYL ETHER IN AIR SAMPLE (NL/L)</u>	<u>2CHLRETHVNLEETHER</u>	<u>nL/L</u>	<u>110-75-8</u>				<u>5/2/2005</u>
<u>99777</u>	<u>ETHYL METHACRYLATE IN AIR SAMPLE (NL/L)</u>	<u>ETHLMETHACRYLATE</u>	<u>nL/L</u>	<u>97-63-2</u>				<u>5/2/2005</u>
<u>99778</u>	<u>TRANS-1,4-DICHLORO-2-BUTENE IN AIR SAMPLE (NL/L)</u>	<u>T14DICHLR2BUTENE</u>	<u>nL/L</u>	<u>110-57-6</u>				<u>5/2/2005</u>
<u>77637</u>	<u>2,5-DINITROTOLUENE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>25DINITROTOLUENE</u>	<u>ug/L</u>	<u>619-15-8</u>				<u>6/29/2006</u>
<u>77632</u>	<u>3,5-DINITROTOLUENE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>35DINITROTOLUENE</u>	<u>ug/L</u>	<u>618-85-9</u>				<u>6/29/2006</u>
39770	DACTHAL (DCPA) IN WHOLE WATER SAMPLE (UG/L)	DACTHAL (DCPA)	ug/L	1861-32-1	14		70	1/9/2007
81410	BUTYLATE IN WHOLE WATER SAMPLE (UG/L)	BUTYLATE	ug/L	2008-41-5	80		400	1/9/2007
01060	MOLYBDENUM, DISSOLVED (UG/L MO)	MOLYBDENM(MO)DIS	ug/L	7439-98-7	8		40	1/9/2007
01062	MOLYBDENUM, TOTAL (UG/L MO)	MOLYBDENM(MO)TOT	ug/L	7439-98-7	8		40	1/9/2007
34696	NAPHTHALENE IN WHOLE WATER SAMPLE (UG/L)	NAPHTHALENE	ug/L	91-20-3	10		100	1/9/2007
<u>99848</u>	<u>BALANCE GAS(OTHER THAN CO2,CH4&O2)IN AIR SMPL,VOL%</u>	<u>BALANCE GAS VOL%</u>	<u>%</u>					<u>5/14/2007</u>
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	NO2-N, DISS	mg/L	<u>14797-65-0</u>	0.2		1	6/19/2007
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	NO2-N, TOTAL	mg/L	<u>14797-65-0</u>	0.2		1	6/19/2007
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	NO3-N, DISS	mg/L	<u>14797-55-8</u>	2		10	6/19/2007
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	NO3-N, TOTAL	mg/L	<u>14797-55-8</u>	2		10	6/19/2007
99014	XYLENE, M & P-, IN AIR SAMPLE (NL/L)	M & P-XYLENE	nL/L	<u>179601-23-1</u>				<u>6/20/2007</u>
<u>99727</u>	<u>2,4,6-TRIBROMOPHENOL, SURROGATE RECOVERY</u>	<u>2,4,6-TBP</u>	<u>ug/L</u>	<u>118-79-6</u>				<u>6/25/2007</u>
<u>99728</u>	<u>2-FLUOROBIPHENYL, SURROGATE RECOVERY</u>	<u>2-FBP</u>	<u>ug/L</u>	<u>321-60-8</u>				<u>6/25/2007</u>
<u>99729</u>	<u>2-FLUOROPHENOL, SURROGATE RECOVERY</u>	<u>2-FLUORO</u>	<u>ug/L</u>	<u>367-12-4</u>				<u>6/25/2007</u>
<u>99730</u>	<u>4-BROMOFLUOROBENZENE, SURROGATE RECOVERY</u>	<u>4-BFB-SUR</u>	<u>ug/L</u>	<u>460-00-4</u>				<u>6/25/2007</u>
<u>99731</u>	<u>PHENOL-D5, SURROGATE RECOVERY</u>	<u>PHENOL-5</u>	<u>ug/L</u>	<u>13127-88-3</u>				<u>6/25/2007</u>
<u>99732</u>	<u>DIBROMOFLUOROMETHANE, SURROGATE RECOVERY</u>	<u>SUR-DBMFM</u>	<u>ug/L</u>	<u>1868-53-7</u>				<u>6/25/2007</u>
<u>99733</u>	<u>TERPHENYL -D14, SURROGATE RECOVERY</u>	<u>TERPHENYL</u>	<u>ug/L</u>	<u>1718-51-0</u>				<u>6/25/2007</u>
<u>99734</u>	<u>TOLUENE-D8, SURROGATE RECOVERY</u>	<u>TOLUENE-D8-SUR</u>	<u>ug/L</u>	<u>2037-26-5</u>				<u>6/25/2007</u>
<u>99735</u>	<u>DITROBENZENE-D5, SURROGATE RECOVERY</u>	<u>D-5NB</u>	<u>ug/L</u>	<u>4165-60-0</u>				<u>6/25/2007</u>
77871	TETRAETHYLDITHIOPYROPHOSPHATE WHL WTR SAMP (UG/L)	<u>SULFOTEPP</u>	ug/L	3689-24-5				<u>7/26/2007</u>
<u>00021</u>	<u>TEMPERATURE, AIR (DEGREES FAHRENHEIT)</u>	<u>AIR TEMP</u>	<u>F</u>					<u>9/4/2007</u>
<u>00045</u>	<u>PRECIPITATION, TOTAL (INCHES PER DAY)</u>	<u>PRECIP,TOT,DAILY</u>	<u>in</u>					<u>9/4/2007</u>
<u>99919</u>	<u>ELEVATION,GRNDWTR,BARO PRESS CORRCTD(FT ABOVE MSL)</u>	<u>GWELEVCRRCTD,MSL</u>	<u>ft</u>					<u>9/4/2007</u>
<u>99920</u>	<u>TEMPERATURE, SOIL, AT 2 CM DEPTH (DEGREES F)</u>	<u>TEMPSOIL2CMDEEP</u>	<u>F</u>					<u>9/4/2007</u>
<u>99921</u>	<u>TEMPERATURE, SOIL, AT 10 CM DEPTH (DEGREES F)</u>	<u>TEMPSOIL10CMDEEP</u>	<u>F</u>					<u>9/4/2007</u>

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<u>99922</u>	<u>TEMPERATURE, SOIL, AT 20 CM DEPTH (DEGREES F)</u>	<u>TEMPSOIL20CMDEEP</u>	<u>F</u>					9/4/2007
<u>99923</u>	<u>TEMPERATURE, SOIL, AT 40 CM DEPTH (DEGREES F)</u>	<u>TEMPSOIL40CMDEEP</u>	<u>F</u>					9/4/2007
<u>99924</u>	<u>TEMPERATURE, SOIL, AT 80 CM DEPTH (DEGREES F)</u>	<u>TEMPSOIL80CMDEEP</u>	<u>F</u>					9/4/2007
00014	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	AIR TEMP	F					9/10/2007
71875	HYDROGEN SULFIDE (H2S) IN WHOLE WATER SAMPLE(MG/L-H2S)	HYDROGEN SULFIDE	mg/L	7783-06-4	<u>0</u>		<u>0.03</u>	9/27/2007
<u>99243</u>	<u>SULFUR,TOTAL REDUCED(TRS)IN AIR SAMPLE(PPMV AS S)</u>	<u>TRS (PPMV AS S)</u>	<u>ppmv as S</u>					10/1/2007
<u>99252</u>	<u>SULFUR,TOTAL REDUCED(TRS)IN AIR SAMPLE(PPMV AS SO2)</u>	<u>TRS (PPMV AS SO2)</u>	<u>ppmv asSO2</u>					11/1/2007
<u>00441</u>	<u>SULFUR, TOTAL ELEMENTAL IN WHOLE WATER SAMPL(MG/L)</u>	<u>SULFUR.TOTL ELEM</u>	<u>mg/L</u>	<u>7704-34-9</u>				11/2/2007
80107	SULFUR, TOTAL ELEMENTAL (MG/L)	SULFUR(S), TOTAL	mg/L	7704-34-9				11/5/2007
<u>99797</u>	<u>PENTAERYTHRITOL TETRANITRATE IN WHL WTR SMPL(UG/L)</u>	<u>PETN</u>	<u>ug/L</u>	<u>78-11-5</u>				12/3/2007
<u>99098</u>	<u>GAS FLOW RATE (CUBIC FEET/MIN)</u>	<u>GAS FLOW RATE</u>	<u>ft^3/min</u>					12/19/2007
77032	METHYL ACETATE IN WHOLE WATER SAMPLE (UG/L)	METHYL ACETATE	ug/L	79-20-9				1/8/2008
<u>99396</u>	<u>CRESOL, M & P-, IN WHOLE WATER SAMPLE (UG/L)</u>	<u>M & P-CRESOL</u>	<u>ug/L</u>	<u>15831-10-4</u>				1/22/2008
<u>99707</u>	<u>ALACHLOR ETHANESULFONIC ACID IN WHL WTR SMPL(UG/L)</u>	<u>ALACHLOR ESA</u>	<u>ug/L</u>	<u>142363-53-9</u>	<u>4</u>		<u>20</u>	2/5/2008
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	PRECIP,TOT,DAILY	in/d					2/20/2008
<u>99870</u>	<u>PRECIPITATION, VOLUME (1000 GALLONS/MONTH)</u>	<u>PRECIP, VOLUME</u>	<u>kgal/month</u>					3/17/2008
99920	TEMPERATURE, SOIL, AT 2 CM DEPTH (DEGREES F)	TEMPSOIL2CMDEEP	F					3/26/2008
99921	TEMPERATURE, SOIL, AT 10 CM DEPTH (DEGREES F)	TEMPSOIL10CMDEEP	F					3/26/2008
99922	TEMPERATURE, SOIL, AT 20 CM DEPTH (DEGREES F)	TEMPSOIL20CMDEEP	F					3/26/2008
99923	TEMPERATURE, SOIL, AT 40 CM DEPTH (DEGREES F)	TEMPSOIL40CMDEEP	F					3/26/2008
99924	TEMPERATURE, SOIL, AT 80 CM DEPTH (DEGREES F)	TEMPSOIL80CMDEEP	F					3/26/2008
<u>46311</u>	<u>MOISTURE, SOIL (PERCENT, DRY WEIGHT BASIS)</u>	<u>SOIL MOISTURE %</u>	<u>%</u>					3/27/2008
<u>99607</u>	<u>TEMPERATURE, SOIL (DEGREES F)</u>	<u>SOIL TEMP DEG F</u>	<u>F</u>					3/27/2008
77189	N-BUTYL ACETATE IN WHOLE WATER SAMPLE (UG/L)	N-BUTYL-ACETATE WTR	ug/L	123-86-4				7/24/2008
<u>99019</u>	<u>NONANE IN AIR SAMPLE (NL/L)</u>	<u>NONANE</u>	<u>nL/L</u>	<u>111-84-2</u>				7/24/2008

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<u>99255</u>	<u>OCTANE IN AIR SAMPLE (NL/L)</u>	<u>OCTANE</u>	<u>nL/L</u>	<u>111-65-9</u>				<u>7/24/2008</u>
<u>99263</u>	<u>ALPHA-PINENE IN AIR SAMPLE (NL/L)</u>	<u>ALPHA-PINENE</u>	<u>nL/L</u>	<u>80-56-8</u>				<u>7/24/2008</u>
<u>99974</u>	<u>ETHYL ACETATE IN AIR SAMPLE (NL/L)</u>	<u>ETHYL ACETATE</u>	<u>nL/L</u>	<u>141-78-6</u>				<u>7/24/2008</u>
<u>99608</u>	<u>N-BUTYL ACETATE IN AIR SAMPLE (NL/L)</u>	<u>BUTYLACETATE AIR</u>	<u>nL/L</u>	<u>123-86-4</u>				<u>7/28/2008</u>
<u>99922</u>	<u>D-LIMONENE IN AIR SAMPLE (NL/L)</u>	<u>D-LIMONENE</u>	<u>nL/L</u>	<u>5989-27-5</u>				<u>7/28/2008</u>
73553	<u>O,O-DIETHYL O-2-PYRAZINYL PHOSPHOROTHIOATETHIONAZIN IN ' THIONAZIN</u>		<u>ug/L</u>	<u>297-97-2</u>				<u>10/9/2009</u>
<u>98927</u>	<u>GAS EXTRACTED,TOTAL MONTHLY VOLUME(1000CU FT/MONTH</u>	<u>GAS VOL EXTRACTD</u>	<u>kft^3/mnth</u>					<u>1/4/2010</u>
<u>46386</u>	<u>GAS FLOW RATE (CUBIC FEET/MIN)</u>	<u>GAS FLOW RATE</u>	<u>ft^3/mir</u>	<u>7440-47-3</u>				<u>2/8/2010</u>
<u>99599</u>	<u>GAS EXTRACTED, TOTAL MONTHLY VOLUME(CU FEET/MONTH)</u>	<u>GAS VOL EXTRACTD</u>	<u>ft^3/month</u>					<u>3/18/2010</u>
<u>46384</u>	<u>GAS PUMPED, VOLUME (CUBIC FEET/MIN)</u>	<u>GAS VOL PUMPED</u>	<u>ft^3/min</u>					<u>3/23/2010</u>
<u>98438</u>	<u>TOTAL MERCURY IN AIR AS HG (NL/L)</u>	<u>MERCURY IN AIR</u>	<u>NL/L</u>	<u>7439-97-6</u>				<u>7/12/2010</u>
03784	HEXACHLORODIBENZO-P-DIOXINS, TOTAL (PG/L)	HXCDDIOXINSTOTAL	<u>ug/L</u>	<u>34465-46-8</u>				<u>11/9/2010</u>
34675	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN W W S (UPG/L)	2378TCDD(DIOXIN)	<u>ug/L</u>	<u>1746-01-6</u>	<u>3</u>		<u>30</u>	<u>11/9/2010</u>
76025	POLYCHLORINATED DIBENZO-P-DIOXINS, TOTAL (UPG/L)	POLYCHLRDDIOXINS, TOT	<u>ug/L</u>	<u>136677-09-3</u>				<u>11/9/2010</u>
99313	1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (PG/L)	1234TCDDIOXIN	<u>ug/L</u>	<u>30746-58-8</u>				<u>11/9/2010</u>
99314	1,2,7,8-TETRACHLORODIBENZO-P-DIOXIN (PG/L)	1278TCDDIOXIN	<u>ug/L</u>	<u>34816-53-0</u>				<u>11/9/2010</u>
99315	1,2,8,9-TETRACHLORODIBENZO-P-DIOXIN (PG/L)	1289TCDDIOXIN	<u>ug/L</u>	<u>62470-54-6</u>				<u>11/9/2010</u>
99316	1,3,6,8-TETRACHLORODIBENZO-P-DIOXIN (PG/L)	1368TCDDIOXIN	<u>ug/L</u>	<u>33423-92-6</u>				<u>11/9/2010</u>
99317	1,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (PG/L)	1378TCDDIOXIN	<u>ug/L</u>	<u>50585-46-1</u>				<u>11/9/2010</u>
99318	1,3,7,9-TETRACHLORODIBENZO-P-DIOXIN (PG/L)	1379TCDDIOXIN	<u>ug/L</u>	<u>62470-53-5</u>				<u>11/9/2010</u>
99319	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (PG/L)	12378PECDDIOXIN	<u>ug/L</u>	<u>40321-76-4</u>				<u>11/9/2010</u>
99320	1,2,4,7,8-PENTACHLORODIBENZO-P-DIOXIN (PG/L)	12478PECDDIOXIN	<u>ug/L</u>	<u>58802-08-7</u>				<u>11/9/2010</u>
99321	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (PG/L)	123478HXCDDIOXIN	<u>ug/L</u>	<u>39227-28-6</u>				<u>11/9/2010</u>
99322	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (PG/L)	1234678HPCDDIOXN	<u>ug/L</u>	<u>35822-46-9</u>				<u>11/9/2010</u>
99323	1,2,3,4,6,7,9-HEPTACHLORODIBENZO-P-DIOXIN (PG/L)	1234679HPCDDIOXN	<u>ug/L</u>	<u>58200-70-7</u>				<u>11/9/2010</u>
99324	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDDPG/L)	12346789OCDDIOXN	<u>ug/L</u>	<u>3268-87-9</u>				<u>11/9/2010</u>
99325	1,2,3,4-TETRACHLORODIBENZOFURAN (PG/L)	1234TCDFURAN	<u>ug/L</u>	<u>24478-72-6</u>				<u>11/9/2010</u>
99326	1,2,6,8-TETRACHLORODIBENZOFURAN (PG/L)	1268TCDFURAN	<u>ug/L</u>					<u>11/9/2010</u>
99327	1,2,7,8-TETRACHLORODIBENZOFURAN (PG/L)	1278TCDFURAN	<u>ug/L</u>	<u>58802-20-3</u>				<u>11/9/2010</u>
99328	1,3,6,8-TETRACHLORODIBENZOFURAN (PG/L)	1368TCDFURAN	<u>ug/L</u>	<u>71998-72-6</u>				<u>11/9/2010</u>
99329	1,2,8,9-TETRACHLORODIBENZOFURAN (PG/L)	1289TCDFURAN	<u>ug/L</u>					<u>11/9/2010</u>
99330	2,3,7,8-TETRACHLORODIBENZOFURAN (PG/L)	2378TCDFURAN	<u>ug/L</u>	<u>51207-31-9</u>				<u>11/9/2010</u>
99331	1,2,3,7,8-PENTACHLORODIBENZOFURAN (PG/L)	12378PECDFURAN	<u>ug/L</u>	<u>57117-41-6</u>				<u>11/9/2010</u>

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
99332	1,2,3,8,9-PENTACHLORODIBENZOFURAN (PG/L)	12389PECDFURAN	µpg/L					11/9/2010
99333	1,3,4,6,8-PENTACHLORODIBENZOFURAN (PG/L)	13468PECDFURAN	µpg/L					11/9/2010
99334	1,2,3,4,6,8-HEXACHLORODIBENZOFURAN (PG/L)	123468HXCDFURAN	µpg/L					11/9/2010
99335	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (PG/L)	123478HXCDFURAN	µpg/L	70648-26-9				11/9/2010
99336	1,2,3,4,8,9-HEXACHLORODIBENZOFURAN (PG/L)	123489HXCDFURAN	µpg/L					11/9/2010
99337	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (PG/L)	1234678HPCDFURAN	µpg/L	67562-39-4				11/9/2010
99338	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (PG/L)	1234789HPCDFURAN	µpg/L	55673-89-7				11/9/2010
99339	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDFPG/L)	12346789OCDFURAN	µpg/L	39001-02-0				11/9/2010
99547	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN (PG/L)	123678HXCDDIOXIN	µpg/L	57653-85-7				11/9/2010
99548	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (PG/L)	123678HXCDFURAN	µpg/L	57117-44-9				11/9/2010
99549	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (PG/L)	123789HXCDDIOXIN	µpg/L	19408-74-3				11/9/2010
99550	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (PG/L)	123789HXCDFURAN	µpg/L	72918-21-9				11/9/2010
99551	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (PG/L)	234678HXCDFURAN	µpg/L	60851-34-5				11/9/2010
99552	2,3,4,7,8-PENTACHLORODIBENZOFURAN (PG/L)	23478PECDFURAN	µpg/L	57117-31-4				11/9/2010
99553	HEPTACHLORODIBENZO-P-DIOXINS, TOTAL (PG/L)	HPCDDIOXINSTOTAL	µpg/L	37871-00-4				11/9/2010
99554	HEPTACHLORODIBENZOFURANS, TOTAL (PG/L)	HPCDFURANS,TOTAL	µpg/L	38998-75-3				11/9/2010
99555	HEXACHLORODIBENZOFURANS, TOTAL (PG/L)	HXCDFURANS,TOTAL	µpg/L	55684-94-1				11/9/2010
99556	PENTACHLORODIBENZO-P-DIOXINS, TOTAL (PG/L)	PECDDIOXINSTOTAL	µpg/L	36088-22-9				11/9/2010
99557	PENTACHLORODIBENZOFURANS, TOTAL (PG/L)	PECDFURANS,TOTAL	µpg/L	30402-15-4				11/9/2010
99558	TETRACHLORODIBENZO-P-DIOXINS, TOTAL (PG/L)	TCDDIOXINS,TOTAL	µpg/L	41903-57-5				11/9/2010
99559	TETRACHLORODIBENZOFURANS, TOTAL (PG/L)	TCDFURANS, TOTAL	µpg/L	30402-14-3				11/9/2010
34561	1,3-DICHLOROPROPENE, DISS IN WHL WTR SAMPLE (UG/L)	13DICHLOROPROPEN	ug/L	542-75-6	0		0.4	11/9/2010
85795	XYLENE, M & P-, IN WHOLE WATER SAMPLE (UG/L)	M & P-XYLENE	ug/L	179601-23-1	400		2000	1/14/2011
39516	PCBS IN WHOLE WATER SAMPLE (MUG/L)	PCBS	µug/L	1336-36-3	0		0.03	4/27/2011
77103	2-HEXANONE IN WHL WTR SAMPLE (UG/L)	2-HEXANONE	ug/L	95591-78-6				4/27/2012
77751	4,4'-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)	PCB CONG#015	ug/L	2050-68-2				10/30/2012
98267	3,4,4'-TRICHLOROBIPHENYL IN WHL WTR SMPL (UG/L)	PCB CONG#037	ug/L	38444-90-5				10/30/2012
98268	2,3,4,4'-TETRACHLOROBIPHENYL IN WHLWTRSMPL (UG/L)	PCB CONG#060	ug/L	33025-41-1				10/30/2012
98269	2,3,3',4,4'-PENTACHLOROBIPHENYL IN WWSMPL (UG/L)	PCB CONG#105	ug/L	32598-14-4				10/30/2012
98270	2,3,4,4',5-PENTACHLOROBIPHENYL IN WW SMPL (UG/L)	PCB CONG#114	ug/L	74472-37-0				10/30/2012
98237	2,3',4,4',5'-PENTACHLOROBIPHENYL IN WW SMPL(UG/L)	PCB CONG#123	ug/L	65510-44-3				10/30/2012
98236	3,3',4,4',5-PENTACHLOROBIPHENYL IN WW SMPL (UG/L)	PCB CONG#126	ug/L	57465-28-8				10/30/2012
98271	2,2',3,3',4,6'-HEXACHLOROBIPHENYL IN WWSMPL(UG/L)	PCB CONG#132	ug/L	38380-05-1				10/30/2012
98272	2,3,3',4,4',6-HEXACHLOROBIPHENYL IN WW SMPL(UG/L)	PCB CONG#158	ug/L	74472-42-7				10/30/2012
98265	3,3',4,4',5,5'-HEXACHLOROBIPHENYL IN WWSMPL(UG/L)	PCB CONG#169	ug/L	32774-16-6				10/30/2012
98273	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL IN WWS(UG/L)	PCB CONG#189	ug/L	39635-31-9				10/30/2012
98274	PCB CONG #020/028 (UG/L)	PCB CONG#020/028	ug/L					10/30/2012

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS# PAL ENF STD	Date Changed
<u>98244</u>	<u>PCB CONG #026/029 (UG/L)</u>	<u>PCB CONG#026/029</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98242</u>	<u>PCB CONG #049/069 (UG/L)</u>	<u>PCB CONG#049/069</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98277</u>	<u>PCB CONG #083/099 (UG/L)</u>	<u>PCB CONG#083/099</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98241</u>	<u>PCB CONG #110/115 (UG/L)</u>	<u>PCB CONG#110/115</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98279</u>	<u>PCB CONG #128/166 (UG/L)</u>	<u>PCB CONG#128/166</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98281</u>	<u>PCB CONG #135/151 (UG/L)</u>	<u>PCB CONG#135/151</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98280</u>	<u>PCB CONG #147/149 (UG/L)</u>	<u>PCB CONG#147/149</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98240</u>	<u>PCB CONG #153/168 (UG/L)</u>	<u>PCB CONG#153/168</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98282</u>	<u>PCB CONG #156/157 (UG/L)</u>	<u>PCB CONG#156/157</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98239</u>	<u>PCB CONG #180/193 (UG/L)</u>	<u>PCB CONG#180/193</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98238</u>	<u>PCB CONG #183/185 (UG/L)</u>	<u>PCB CONG#183/185</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98283</u>	<u>PCB CONG #198/201 (UG/L)</u>	<u>PCB CONG#198/201</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98243</u>	<u>PCB CONG #044/047/065 (UG/L)</u>	<u>PCB#044/047/065</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98278</u>	<u>PCB CONG #090/101/113 (UG/L)</u>	<u>PCB#090/101/113</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98275</u>	<u>PCB CONG #061/070/074/076 (UG/L)</u>	<u>PCB#61/70/74/76</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98266</u>	<u>PCB CONG #129/138/160/163 (UG/L)</u>	<u>PCB 4 CONGS</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>98276</u>	<u>PCB CONG #086/087/097/109/119/125 (UG/L)</u>	<u>PCB 6 CONGS</u>	<u>ug/L</u>		<u>10/30/2012</u>
<u>01080</u>	<u>STRONTIUM, DISSOLVED(UG/L SR)</u>	<u>STRONTIUM(SR)DIS</u>	<u>ug/L</u>	<u>7440-24-6</u>	<u>12/13/2012</u>
<u>77115</u>	<u>PENTANOIC ACID IN WHOLE WATER SAMPLE (mg/L)</u>	<u>PENTANOIC ACID</u>	<u>mg/L</u>	<u>109-52-4</u>	<u>2/21/2013</u>
<u>03829</u>	<u>PENTANOIC ACID, 4-METHYL IN WHL WATER SAMPLE (mg/L)</u>	<u>PENTANOIC ACID4M</u>	<u>mg/L</u>	<u>646-07-1</u>	<u>2/21/2013</u>
<u>77190</u>	<u>HEXANOIC ACID IN WHOLE WATER SAMPLE (mg/L)</u>	<u>HEXANOIC ACID</u>	<u>mg/L</u>	<u>142-62-1</u>	<u>2/21/2013</u>
<u>81590</u>	<u>N-HEXANE, MIXTURE OF ISOMERS IN WHL WTR SMPLE (UG/L)</u>	<u>N-HEXANE MIX</u>	<u>ug/L</u>	<u>410-54-3 92112-69-1</u>	<u>2/12/2014</u>
<u>98133</u>	<u>ACETYLENE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>ACETYLENE</u>	<u>ug/L</u>	<u>74-86-2</u>	<u>1/21/2015</u>
<u>34753</u>	<u>2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN, SOLID UG/KG DW</u>	<u>2,3,7,8-TCDD,SOL</u>	<u>ug/kg</u>	<u>1746-01-6</u>	<u>7/2/2015</u>
<u>82583</u>	<u>PH, SOLID MATRIX (STANDARD UNITS)</u>	<u>PH, SOLID MATRIX</u>	<u>SU</u>		<u>7/2/2015</u>
<u>98127</u>	<u>2,3,7,8-TETRACHLORODIBENZOFURAN, SOLID (UG/KG DW)</u>	<u>2,3,7,8-TCDF,SOL</u>	<u>ug/kg</u>	<u>51207-31-9</u>	<u>7/2/2015</u>
<u>46225</u>	<u>CHLORIDE, SOLID MATRIX (MG/KG DRY WT AS CL)</u>	<u>CHLORIDE, SM</u>	<u>mg/kg</u>	<u>16887-00-6</u>	<u>7/2/2015</u>
<u>82458</u>	<u>NITROGEN NO3+NO2, SOLID MATRIX (MG/KG)</u>	<u>NO3+NO2,SOLID MX</u>	<u>mg/kg</u>		<u>7/2/2015</u>
<u>00627</u>	<u>NITROGEN KJELDAHL TOTAL, SOLID MATRIX (MG/KG AS N)</u>	<u>TKN SOLID MATRIX</u>	<u>mg/kg</u>		<u>7/2/2015</u>
<u>00668</u>	<u>PHOSPHORUS, SOLID MATRIX (MG/KG DRY WT AS P)</u>	<u>PHOSPHORUS(P)SM</u>	<u>mg/kg</u>	<u>7723-14-0</u>	<u>7/2/2015</u>
<u>00938</u>	<u>POTASSIUM, SOLID MATRIX (MG/KG DRY WT AS K)</u>	<u>POTASSIUM(K)SM</u>	<u>mg/kg</u>	<u>7440-09-7</u>	<u>7/2/2015</u>
<u>81951</u>	<u>CARBON TOTAL ORGANIC, SOLID MATRIX (MG/KG)</u>	<u>TOC, SOLID MX</u>	<u>mg/kg</u>	<u>7440-44-0</u>	<u>7/2/2015</u>
<u>70318</u>	<u>SOLIDS PERCENT, SOLID MATRIX (%)</u>	<u>SOLIDS, SOLID MX</u>	<u>%</u>		<u>7/2/2015</u>
<u>01003</u>	<u>ARSENIC, SOLID MATRIX (MG/KG DRY WT AS AS)</u>	<u>ARSENIC(AS)SM</u>	<u>mg/kg</u>	<u>7440-38-2</u>	<u>7/2/2015</u>
<u>01013</u>	<u>BERYLLIUM, SOLID MATRIX (MG/KG DRY WT AS BE)</u>	<u>BERYLLIUM(BE)SM</u>	<u>mg/kg</u>	<u>7440-41-7</u>	<u>7/2/2015</u>
<u>01028</u>	<u>CADMIUM, SOLID MATRIX (MG/KG DRY WT AS CD)</u>	<u>CADMIUM(CD)SM</u>	<u>mg/kg</u>	<u>7440-43-9</u>	<u>7/2/2015</u>

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
<u>01029</u>	<u>CHROMIUM, SOLID MATRIX (MG/KG DRY WT AS CR)</u>	<u>CHROMIUM(CR)SM</u>	<u>mg/kg</u>	<u>7440-47-3</u>				<u>7/2/2015</u>
<u>01052</u>	<u>LEAD, SOLID MATRIX (MG/KG DRY WT AS PB)</u>	<u>LEAD(PB)SM</u>	<u>mg/kg</u>	<u>7439-92-1</u>				<u>7/2/2015</u>
<u>71921</u>	<u>MERCURY, SOLID MATRIX (MG/KG DRY WT AS HG)</u>	<u>MERCURY(HG)SM</u>	<u>mg/kg</u>	<u>7439-97-6</u>				<u>7/2/2015</u>
<u>39519</u>	<u>PCBS (TOTAL AROCLORS), SOLID MATRIX (UG/KG DRY WT)</u>	<u>PCB(TOT ARCLR)SM</u>	<u>ug/kg</u>	<u>1336-36-3</u>				<u>7/2/2015</u>
<u>85755</u>	<u>BENZ(A)ANTHRACENE, SOLID MATRIX (UG/KG DRY WT)</u>	<u>BNZ(A)ANTH, SM</u>	<u>ug/kg</u>	<u>56-55-3</u>				<u>7/2/2015</u>
<u>85754</u>	<u>BENZO(A)PYRENE, SOLID MATRIX (UG/KG DRY WT)</u>	<u>BNZ(A)PYRENE, SM</u>	<u>ug/kg</u>	<u>50-32-8</u>				<u>7/2/2015</u>
<u>34233</u>	<u>BENZO(B)FLUORANTHENE, SOLID MATRIX (UG/KG DRY WT)</u>	<u>BNZ(B)FLRNTHN,SM</u>	<u>ug/kg</u>	<u>205-99-2</u>				<u>7/2/2015</u>
<u>34559</u>	<u>DIBENZ(AH)ANTHRACENE, SOLID MATRIX (UG/KG DRY WT)</u>	<u>DBZ(AH)ATHRCN,SM</u>	<u>ug/kg</u>	<u>53-70-3</u>				<u>7/2/2015</u>
<u>34406</u>	<u>INDENO(1,2,3-CD)PYRENE, SOLID MATRIX(UG/KG DRY WT)</u>	<u>INDN(123CD)PY,SM</u>	<u>ug/kg</u>	<u>193-39-5</u>				<u>7/2/2015</u>
<u>31668</u>	<u>TOTAL PAHS, SOLID MATRIX (UG/KG DRY WT)</u>	<u>PAHS.TOTAL,SM</u>	<u>ug/kg</u>					<u>7/2/2015</u>
<u>39373</u>	<u>DDT, SOLID MATRIX (UG/KG DRY WT)</u>	<u>DDT,SOLID MATRIX</u>	<u>ug/kg</u>	<u>50-29-3</u>				<u>7/2/2015</u>
<u>39363</u>	<u>DDD, SOLID MATRIX (UG/KG DRY WT)</u>	<u>DDD,SOLID MATRIX</u>	<u>ug/kg</u>	<u>72-54-8</u>				<u>7/2/2015</u>
<u>39368</u>	<u>DDE, SOLID MATRIX (UG/KG DRY WT)</u>	<u>DDE,SOLID MATRIX</u>	<u>ug/kg</u>	<u>72-55-9</u>				<u>7/2/2015</u>
<u>00008</u>	<u>COMMENT, WELL OBSTRUCTED</u>	<u>CMT, OBSTRUCTED</u>						<u>9/17/2015</u>
<u>00009</u>	<u>% OPEN INTERVAL, GAS WELL SCREEN</u>	<u>%OPEN_IN,GAS_SCR</u>	<u>%</u>					<u>9/17/2015</u>
<u>98427</u> <u>30362</u>	<u>2,3,7,8-TETRACHLORODIBENZOFURAN, SOLID (UG/KG DW)</u>	<u>2,3,7,8-TCDF,SOL</u>	<u>ug/kg</u>	<u>51207-31-9</u>				<u>9/29/2015</u>
<u>98978</u>	<u>ACETOCHLOR ESA IN WHOLE WATER SAMPLE (UG/L)</u>	<u>ACETO ESA WH WTR</u>	<u>ug/L</u>	<u>187022-11-3</u>	<u>46</u>		<u>230</u>	<u>10/30/2015</u>
<u>98977</u>	<u>ACETOCHLOR OA IN WHOLE WATER SAMPLE (UG/L)</u>	<u>ACETO OA WH WTR</u>	<u>ug/L</u>	<u>184992-44-4</u>	<u>46</u>		<u>230</u>	<u>10/30/2015</u>
<u>99245</u> <u>45028</u>	<u>CHLORODIFLUOROMETHANE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>CHLDIFLU WH WTR</u>	<u>ug/L</u>	<u>75-45-6</u>	<u>700</u>		<u>7000</u>	<u>11/5/2015</u>
<u>97870</u>	<u>DIMETHENAMID-P IN WHOLE WATER SAMPLE (UG/L)</u>	<u>DIMETH-P WH WTR</u>	<u>ug/L</u>	<u>163515-14-8</u>	<u>5</u>		<u>50</u>	<u>10/30/2015</u>
<u>97871</u>	<u>S-METOLACHLOR IN WHOLE WATER SAMPLE (UG/L)</u>	<u>S-METOLAC WH WTR</u>	<u>ug/L</u>	<u>87392-12-9</u>	<u>10</u>		<u>100</u>	<u>10/30/2015</u>
<u>98975</u>	<u>METOLACHLOR ESA IN WHOLE WATER SAMPLE (UG/L)</u>	<u>METOL ESA WH WTR</u>	<u>ug/L</u>	<u>171118-09-5</u>	<u>260</u>		<u>1300</u>	<u>10/30/2015</u>
<u>98974</u>	<u>METOLACHLOR OA IN WHOLE WATER SAMPLE (UG/L)</u>	<u>METOL OA WH WTR</u>	<u>ug/L</u>	<u>152019-73-3</u>	<u>260</u>		<u>1300</u>	<u>10/30/2015</u>
<u>61209</u>	<u>PERCHLORATE IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PERCHLORA WH WTR</u>	<u>ug/L</u>	<u>14797-73-0</u>	<u>0.1</u>		<u>1</u>	<u>10/30/2015</u>
<u>98043</u>	<u>3-CHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#002</u>	<u>ug/L</u>	<u>2051-61-8</u>				<u>1/12/2016</u>
<u>77656</u>	<u>4-CHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#003</u>	<u>ug/L</u>	<u>2051-62-9</u>				<u>1/12/2016</u>
<u>77755</u>	<u>2,2'-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#004</u>	<u>ug/L</u>	<u>13029-08-8</u>				<u>1/12/2016</u>
<u>85702</u>	<u>PCB CONG #005/008 (UG/L)</u>	<u>PCB CONG#005/008</u>	<u>ug/L</u>					<u>1/12/2016</u>
<u>85701</u>	<u>2,3'-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#006</u>	<u>ug/L</u>	<u>25569-80-6</u>				<u>1/12/2016</u>
<u>85700</u>	<u>2,4-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#007</u>	<u>ug/L</u>	<u>33284-50-3</u>				<u>1/12/2016</u>
<u>98042</u>	<u>2,5-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#009</u>	<u>ug/L</u>	<u>34883-39-1</u>				<u>1/12/2016</u>
<u>77756</u>	<u>2,6-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#010</u>	<u>ug/L</u>	<u>33146-45-1</u>				<u>1/12/2016</u>
<u>98041</u>	<u>3,3'-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#011</u>	<u>ug/L</u>	<u>2050-67-1</u>				<u>1/12/2016</u>
<u>98040</u>	<u>3,4-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#012</u>	<u>ug/L</u>	<u>2974-92-7</u>				<u>1/12/2016</u>
<u>98039</u>	<u>PCB CONG #012/013 (UG/L)</u>	<u>PCB CONG#012/013</u>	<u>ug/L</u>					<u>1/12/2016</u>

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
98038	<u>3,4'-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#013</u>	<u>ug/L</u>	<u>2974-90-5</u>				<u>1/12/2016</u>
19000	<u>3,5-DICHLOROBIPHENYL IN WHOLE WATER SAMPLE (UG/L)</u>	<u>PCB CONG#014</u>	<u>ug/L</u>	<u>34883-41-5</u>				<u>1/12/2016</u>
98037	<u>2,2',3-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#016</u>	<u>ug/L</u>	<u>38444-78-9</u>				<u>1/12/2016</u>
85707	<u>PCB CONG #016/032 (UG/L)</u>	<u>PCB CONG#016/032</u>	<u>ug/L</u>					<u>1/12/2016</u>
85705	<u>2,2',4-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#017</u>	<u>ug/L</u>	<u>37680-66-3</u>				<u>1/12/2016</u>
98036	<u>PCB CONG #018/030 (UG/L)</u>	<u>PCB CONG#018/030</u>	<u>ug/L</u>					<u>1/12/2016</u>
85703	<u>2,2',6-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#019</u>	<u>ug/L</u>	<u>38444-73-4</u>				<u>1/12/2016</u>
98035	<u>2,3,3'-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#020</u>	<u>ug/L</u>	<u>38444-84-7</u>				<u>1/12/2016</u>
77810	<u>2,3,4-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#021</u>	<u>ug/L</u>	<u>55702-46-0</u>				<u>1/12/2016</u>
98034	<u>PCB CONG #021/033 (UG/L)</u>	<u>PCB CONG#021/033</u>	<u>ug/L</u>					<u>1/12/2016</u>
85711	<u>2,3,4'-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#022</u>	<u>ug/L</u>	<u>38444-85-8</u>				<u>1/12/2016</u>
98033	<u>2,3,5-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#023</u>	<u>ug/L</u>	<u>55720-44-0</u>				<u>1/12/2016</u>
77806	<u>2,3,6-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#024</u>	<u>ug/L</u>	<u>55702-45-9</u>				<u>1/12/2016</u>
85706	<u>PCB CONG #024/027 (UG/L)</u>	<u>PCB CONG#024/027</u>	<u>ug/L</u>					<u>1/12/2016</u>
77813	<u>2,3',4-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#025</u>	<u>ug/L</u>	<u>55712-37-3</u>				<u>1/12/2016</u>
85708	<u>2,3',5-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#026</u>	<u>ug/L</u>	<u>38444-81-4</u>				<u>1/12/2016</u>
98032	<u>2,3',6-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#027</u>	<u>ug/L</u>	<u>38444-76-7</u>				<u>1/12/2016</u>
77809	<u>2,4,4'-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#028</u>	<u>ug/L</u>	<u>7012-37-5</u>				<u>1/12/2016</u>
85709	<u>PCB CONG #028/031 (UG/L)</u>	<u>PCB CONG#028/031</u>	<u>ug/L</u>					<u>1/12/2016</u>
77817	<u>2,4,5-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#029</u>	<u>ug/L</u>	<u>15862-07-4</u>				<u>1/12/2016</u>
77814	<u>2,4,6-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#030</u>	<u>ug/L</u>	<u>35693-92-6</u>				<u>1/12/2016</u>
98031	<u>2,4',6-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#032</u>	<u>ug/L</u>	<u>38444-77-8</u>				<u>1/12/2016</u>
85710	<u>2,3',4'-TRICHLOROBIPHENYL IN WHOLE WTR SAMP(UG/L)</u>	<u>PCB CONG#033</u>	<u>ug/L</u>	<u>38444-86-9</u>				<u>1/12/2016</u>
98030	<u>2,3',5'-TRICHLOROBIPHENYL IN WHOLE WTR SAMP(UG/L)</u>	<u>PCB CONG#034</u>	<u>ug/L</u>	<u>37680-68-5</u>				<u>1/12/2016</u>
98029	<u>3,3',4-TRICHLOROBIPHENYL IN WHOLE WTR SAMP(UG/L)</u>	<u>PCB CONG#035</u>	<u>ug/L</u>	<u>37680-69-6</u>				<u>1/14/2016</u>
98028	<u>3,3',5-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#036</u>	<u>ug/L</u>	<u>38444-87-0</u>				<u>1/14/2016</u>
85717	<u>PCB CONG #037/042 (UG/L)</u>	<u>PCB CONG#037/042</u>	<u>ug/L</u>					<u>1/14/2016</u>
98027	<u>3,4,5-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#038</u>	<u>ug/L</u>	<u>53555-66-1</u>				<u>1/14/2016</u>
98026	<u>3,4',5-TRICHLOROBIPHENYL IN WHOLE WATER SAMP(UG/L)</u>	<u>PCB CONG#039</u>	<u>ug/L</u>	<u>38444-88-1</u>				<u>1/14/2016</u>
77839	<u>2,2',3,3'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)</u>	<u>PCB CONG#040</u>	<u>ug/L</u>	<u>38444-93-8</u>				<u>1/14/2016</u>
98025	<u>PCB CONG #040/041/071 (UG/L)</u>	<u>PCB#040/041/071</u>	<u>ug/L</u>					<u>1/14/2016</u>
98024	<u>2,2',3,4-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#041</u>	<u>ug/L</u>	<u>52663-59-9</u>				<u>1/14/2016</u>
85720	<u>PCB CONG #041/064/071 (UG/L)</u>	<u>PCB#041/064/071</u>	<u>ug/L</u>					<u>1/14/2016</u>
98023	<u>2,2',3,4'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)</u>	<u>PCB CONG#042</u>	<u>ug/L</u>	<u>36559-22-5</u>				<u>1/14/2016</u>
98022	<u>2,2',3,5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#043</u>	<u>ug/L</u>	<u>70362-46-8</u>				<u>1/14/2016</u>
98021	<u>PCB CONG #043/073 (UG/L)</u>	<u>PCB CONG#043/073</u>	<u>ug/L</u>					<u>1/14/2016</u>
85712	<u>2,2',3,6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)</u>	<u>PCB CONG#045</u>	<u>ug/L</u>	<u>70362-45-7</u>				<u>1/14/2016</u>
98020	<u>PCB CONG #045/051 (UG/L)</u>	<u>PCB CONG#045/051</u>	<u>ug/L</u>					<u>1/14/2016</u>
85713	<u>2,2',3,6'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)</u>	<u>PCB CONG#046</u>	<u>ug/L</u>	<u>41464-47-5</u>				<u>1/14/2016</u>
77846	<u>2,2',4,4'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)</u>	<u>PCB CONG#047</u>	<u>ug/L</u>	<u>2437-79-8</u>				<u>1/14/2016</u>

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
99763	PCB CONG #047/048 (UG/L)	PCB CONG#047/048	ug/L					1/14/2016
98019	2,2',4,5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#048	ug/L	70362-47-9				1/14/2016
85715	2,2',4,5'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#049	ug/L	41464-40-8				1/14/2016
98018	2,2',4,6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#050	ug/L	62796-65-0				1/14/2016
98017	PCB CONG #050/053 (UG/L)	PCB CONG#050/053	ug/L					1/14/2016
98016	2,2',4,6'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#051	ug/L	68194-04-7				1/14/2016
98015	2,2',5,6'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#053	ug/L	41464-41-9				1/14/2016
77840	2,2',6,6'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#054	ug/L	15968-05-5				1/14/2016
98014	2,3,3',4-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#055	ug/L	74338-24-2				1/14/2016
98013	2,3,3',4'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#056	ug/L	41464-43-1				1/14/2016
85723	PCB CONG #056/060 (UG/L)	PCB CONG#056/060	ug/L					1/14/2016
98012	2,3,3',5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#057	ug/L	70424-67-8				1/14/2016
98011	2,3,3',5'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#058	ug/L	41464-49-7				1/14/2016
97881	2,3,3',6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#059	ug/L	74472-33-6				1/14/2016
97880	PCB CONG #059/062/075 (UG/L)	PCB#059/062/075	ug/L					1/14/2016
77844	2,3,4,5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#061	ug/L	33284-53-6				1/14/2016
97879	2,3,4,6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#062	ug/L	54230-22-7				1/14/2016
97878	2,3,4',5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#063	ug/L	74472-34-7				1/14/2016
97877	2,3,4',6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#064	ug/L	52663-58-8				1/14/2016
77836	2,3,5,6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#065	ug/L	33284-54-7				1/14/2016
85721	PCB CONG #066/095 (UG/L)	PCB CONG#066/095	ug/L					1/14/2016
97876	2,3',4,5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#067	ug/L	73575-53-8				1/14/2016
97875	2,3',4,5'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#068	ug/L	73575-52-7				1/14/2016
97874	2,3',4,6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#069	ug/L	60233-24-1				1/14/2016
77845	2,3',4',5-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#070	ug/L	32598-11-1				1/14/2016
85719	PCB CONG #070/076 (UG/L)	PCB CONG#070/076	ug/L					1/14/2016
97873	2,3',4',6-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#071	ug/L	41464-46-4				1/14/2016
97872	2,3',5,5'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#072	ug/L	41464-42-0				1/14/2016
98000	2,3',5',6-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#073	ug/L	74338-23-1				1/14/2016
85718	2,4,4',5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#074	ug/L	32690-93-0				1/14/2016
97999	2,4,4',6-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#075	ug/L	32598-12-2				1/14/2016
97998	2,3',4',5'-TETRACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#076	ug/L	70362-48-0				1/14/2016
85727	PCB CONG #077/110 (UG/L)	PCB CONG#077/110	ug/L					1/14/2016
97997	3,3',4,5-TETRACHLOROBIPHENYL IN WHL WTR SMPL(UG/L)	PCB CONG#078	ug/L	70362-49-1				1/14/2016
97996	3,3',4,5'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#079	ug/L	41464-48-6				1/14/2016
97995	3,3',5,5'-TETRACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#080	ug/L	33284-52-5				1/14/2016
85728	2,2',3,3',4-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#082	ug/L	52663-62-4				1/14/2016
97994	2,2',3,3',5-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#083	ug/L	60145-20-2				1/14/2016
97993	2,2',3,3',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#084	ug/L	52663-60-2				1/14/2016
85724	PCB CONG #084/092 (UG/L)	PCB CONG#084/092	ug/L					1/14/2016
85726	2,2',3,4,4'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#085	ug/L	65510-45-4				1/14/2016

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
97992	PCB CONG #085/087/097/108/119/125 (UG/L)	PCB 6 CONGS	ug/L					1/14/2016
97991	PCB CONG #085/116/117 (UG/L)	PCB#085/116/117	ug/L					1/14/2016
97990	2,2',3,4,5-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#086	ug/L	55312-69-1				1/14/2016
97989	2,2',3,4,6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#088	ug/L	55215-17-3				1/14/2016
97988	PCB CONG #088/091 (UG/L)	PCB CONG#088/091	ug/L					1/14/2016
97987	2,2',3,4,6'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#089	ug/L	73575-57-2				1/14/2016
97986	2,2',3,4',5-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#090	ug/L	68194-07-0				1/14/2016
85722	2,2',3,4',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#091	ug/L	68194-05-8				1/14/2016
97985	2,2',3,5,5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#092	ug/L	52663-61-3				1/14/2016
97984	2,2',3,5,6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#093	ug/L	73575-56-1				1/14/2016
97983	PCB CONG #093/098/100/102 (UG/L)	PCB 4 CONGS	ug/L					1/14/2016
97982	2,2',3,5,6'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#094	ug/L	73575-55-0				1/14/2016
97981	2,2',3,6,6'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#096	ug/L	73575-54-9				1/14/2016
77877	2,2',3,4',5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#097	ug/L	41464-51-1				1/14/2016
97980	2,2',3,4',6'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#098	ug/L	60233-25-2				1/14/2016
85725	2,2',4,4',5-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#099	ug/L	38380-01-7				1/14/2016
97979	2,2',4,4',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#100	ug/L	39485-83-1				1/14/2016
97978	2,2',4,5,6'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#102	ug/L	68194-06-9				1/14/2016
97977	2,2',4,5',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#103	ug/L	60145-21-3				1/14/2016
97976	2,2',4,6,6'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#104	ug/L	56558-16-8				1/14/2016
97975	2,3,3',4,5-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#106	ug/L	70424-69-0				1/14/2016
97974	2,3,3',4',5-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#107	ug/L	70424-68-9				1/14/2016
97973	PCB CONG #107/124 (UG/L)	PCB CONG#107/124	ug/L					1/14/2016
97972	2,3,3',4,5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#108	ug/L	70362-41-3				1/14/2016
97971	2,3,3',4,6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#109	ug/L	74472-35-8				1/14/2016
97970	2,3,3',5,5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#111	ug/L	39635-32-0				1/14/2016
97969	2,3,3',5,6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#112	ug/L	74472-36-9				1/14/2016
97968	2,3,3',5',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#113	ug/L	68194-10-5				1/14/2016
97967	2,3,4,4',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#115	ug/L	74472-38-1				1/14/2016
77873	2,3,4,5,6-PENTACHLOROBIPHENYL IN WHL WTR SMP(UG/L)	PCB CONG#116	ug/L	18259-05-7				1/14/2016
97966	2,3,4',5,6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#117	ug/L	68194-11-6				1/14/2016
97965	2,3',4,4',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#119	ug/L	56558-17-9				1/14/2016
97964	2,3',4,5,5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#120	ug/L	68194-12-7				1/14/2016
97963	2,3',4,5',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#121	ug/L	56558-18-0				1/14/2016
97962	2,3,3',4',5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#122	ug/L	76842-07-4				1/14/2016
97961	2,3',4',5,5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#124	ug/L	70424-70-3				1/14/2016
97960	2,3',4',5',6-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#125	ug/L	74472-39-2				1/14/2016
97959	3,3',4,5,5'-PENTACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#127	ug/L	39635-33-1				1/14/2016
99171	2,2',3,3',4,4'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)	PCB CONG#128	ug/L	38380-07-3				1/14/2016
97958	2,2',3,3',4,5-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)	PCB CONG#129	ug/L	55215-18-4				1/14/2016
97957	PCB CONG #129/138/163 (UG/L)	PCB#129/138/163	ug/L					1/14/2016

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97956	<u>2,2',3,3',4,5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#130</u>	<u>ug/L</u>	<u>52663-66-8</u>				<u>1/14/2016</u>
97955	<u>2,2',3,3',4,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#131</u>	<u>ug/L</u>	<u>61798-70-7</u>				<u>1/14/2016</u>
85734	<u>PCB CONG #132/153 (UG/L)</u>	<u>PCB CONG#132/153</u>	<u>ug/L</u>					<u>1/14/2016</u>
97954	<u>2,2',3,3',5,5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#133</u>	<u>ug/L</u>	<u>35694-04-3</u>				<u>1/14/2016</u>
97953	<u>2,2',3,3',5,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#134</u>	<u>ug/L</u>	<u>52704-70-8</u>				<u>1/14/2016</u>
97952	<u>PCB CONG #134/143 (UG/L)</u>	<u>PCB CONG#134/143</u>	<u>ug/L</u>					<u>1/14/2016</u>
97951	<u>2,2',3,3',5,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#135</u>	<u>ug/L</u>	<u>52744-13-5</u>				<u>1/14/2016</u>
85730	<u>PCB CONG #135/144 (UG/L)</u>	<u>PCB CONG#135/144</u>	<u>ug/L</u>					<u>1/14/2016</u>
77896	<u>2,2',3,3',6,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#136</u>	<u>ug/L</u>	<u>38411-22-2</u>				<u>1/14/2016</u>
97950	<u>2,2',3,4,4',5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#137</u>	<u>ug/L</u>	<u>35694-06-5</u>				<u>1/14/2016</u>
85736	<u>PCB CONG #137/176 (UG/L)</u>	<u>PCB CONG#137/176</u>	<u>ug/L</u>					<u>1/14/2016</u>
77894	<u>2,2',3,4,4',5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#138</u>	<u>ug/L</u>	<u>35065-28-2</u>				<u>1/14/2016</u>
97949	<u>2,2',3,4,4',6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#139</u>	<u>ug/L</u>	<u>56030-56-9</u>				<u>1/14/2016</u>
97948	<u>PCB CONG #139/140 (UG/L)</u>	<u>PCB CONG#139/140</u>	<u>ug/L</u>					<u>1/14/2016</u>
97947	<u>2,2',3,4,4',6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#140</u>	<u>ug/L</u>	<u>59291-64-4</u>				<u>1/14/2016</u>
97946	<u>2,2',3,4,5,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#142</u>	<u>ug/L</u>	<u>41411-61-4</u>				<u>1/14/2016</u>
97945	<u>2,2',3,4,5,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#143</u>	<u>ug/L</u>	<u>68194-15-0</u>				<u>1/14/2016</u>
97944	<u>2,2',3,4,5',6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#144</u>	<u>ug/L</u>	<u>68194-14-9</u>				<u>1/14/2016</u>
97943	<u>2,2',3,4,6,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#145</u>	<u>ug/L</u>	<u>74472-40-5</u>				<u>1/14/2016</u>
85733	<u>2,2',3,4',5,5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#146</u>	<u>ug/L</u>	<u>51908-16-8</u>				<u>1/14/2016</u>
97942	<u>2,2',3,4',5,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#147</u>	<u>ug/L</u>	<u>68194-13-8</u>				<u>1/14/2016</u>
97941	<u>2,2',3,4',5,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#148</u>	<u>ug/L</u>	<u>74472-41-6</u>				<u>1/14/2016</u>
85731	<u>2,2',3,4',5',6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#149</u>	<u>ug/L</u>	<u>38380-04-0</u>				<u>1/14/2016</u>
97940	<u>2,2',3,4',6,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#150</u>	<u>ug/L</u>	<u>68194-08-1</u>				<u>1/14/2016</u>
97939	<u>2,2',3,5,6,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#152</u>	<u>ug/L</u>	<u>68194-09-2</u>				<u>1/14/2016</u>
97938	<u>2,2',4,4',5,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#154</u>	<u>ug/L</u>	<u>60145-22-4</u>				<u>1/14/2016</u>
77897	<u>2,2',4,4',6,6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#155</u>	<u>ug/L</u>	<u>33979-03-2</u>				<u>1/14/2016</u>
97937	<u>2,3,3',4,4',5'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#156</u>	<u>ug/L</u>	<u>38380-08-4</u>				<u>1/14/2016</u>
97936	<u>2,3,3',4,4',5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#157</u>	<u>ug/L</u>	<u>69782-90-7</u>				<u>1/14/2016</u>
97935	<u>2,3,3',4,5,5'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#159</u>	<u>ug/L</u>	<u>39635-35-3</u>				<u>1/14/2016</u>
97934	<u>2,3,3',4,5,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#160</u>	<u>ug/L</u>	<u>41411-62-5</u>				<u>1/14/2016</u>
97933	<u>2,3,3',4,5',6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#161</u>	<u>ug/L</u>	<u>74472-43-8</u>				<u>1/14/2016</u>
97932	<u>2,3,3',4',5,5'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#162</u>	<u>ug/L</u>	<u>39635-34-2</u>				<u>1/14/2016</u>
97931	<u>2,3,3',4',5,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#163</u>	<u>ug/L</u>	<u>74472-44-9</u>				<u>1/14/2016</u>
97930	<u>2,3,3',4',5',6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#164</u>	<u>ug/L</u>	<u>74472-45-0</u>				<u>1/14/2016</u>
97929	<u>2,3,3',5,5',6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#165</u>	<u>ug/L</u>	<u>74472-46-1</u>				<u>1/14/2016</u>
19001	<u>2,3,4,4',5,6'-HEXACHLOROBIPHENYL IN WHL WTR (UG/L)</u>	<u>PCB CONG#166</u>	<u>ug/L</u>	<u>41411-63-6</u>				<u>1/14/2016</u>
97928	<u>2,3',4,4',5',6'-HEXACHLOROBIPHENYL IN WHL WTR(UG/L)</u>	<u>PCB CONG#168</u>	<u>ug/L</u>	<u>59291-65-5</u>				<u>1/14/2016</u>
85746	<u>PCB CONG #170/190 (UG/L)</u>	<u>PCB CONG#170/190</u>	<u>ug/L</u>					<u>1/14/2016</u>
97927	<u>2,2',3,3',4,4',6'-HEPTACHLOROBIPHENYL WHL WTR(UG/L)</u>	<u>PCB CONG#171</u>	<u>ug/L</u>	<u>52663-71-5</u>				<u>1/14/2016</u>
97926	<u>PCB CONG #171/173 (UG/L)</u>	<u>PCB CONG#171/173</u>	<u>ug/L</u>					<u>1/14/2016</u>

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85742	PCB CONG #171/202 (UG/L)	PCB CONG#171/202	ug/L					1/14/2016
97925	2,2',3,3',4,5,5'-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#172	ug/L	52663-74-8				1/14/2016
85743	PCB CONG #172/197 (UG/L)	PCB CONG#172/197	ug/L					1/14/2016
97924	2,2',3,3',4,5,6-HEPTACHLOROBIPHENYL WHL WTR (UG/L)	PCB CONG#173	ug/L	68194-16-1				1/14/2016
85740	2,2',3,3',4,5,6'-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#174	ug/L	38411-25-5				1/14/2016
97923	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#175	ug/L	40186-70-7				1/14/2016
97922	2,2',3,3',4,6,6'-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#176	ug/L	52663-65-7				1/14/2016
85741	2,2',3,3',4,5',6'-HEPTACHLOROBIPHENYL WHLWTR(UG/L)	PCB CONG#177	ug/L	52663-70-4				1/14/2016
85737	2,2',3,3',5,5',6-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#178	ug/L	52663-67-9				1/14/2016
97921	2,2',3,3',5,6,6'-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#179	ug/L	52663-64-6				1/14/2016
97920	2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL WHL WTR (UG/L)	PCB CONG#181	ug/L	74472-47-2				1/14/2016
85738	PCB CONG #182/187 (UG/L)	PCB CONG#182/187	ug/L					1/14/2016
77910	2,2',3,4,5,5',6-HEPTACHLOROBIPHENYL WHL WTR (UG/L)	PCB CONG#185	ug/L	52712-05-7				1/14/2016
97919	2,2',3,4,5,6,6'-HEPTACHLOROBIPHENYL WHL WTR (UG/L)	PCB CONG#186	ug/L	74472-49-4				1/14/2016
97918	2,2',3,4',5,6,6'-HEPTACHLOROBIPHENYL WHL WTR(UG/L)	PCB CONG#188	ug/L	74487-85-7				1/14/2016
97917	2,3,3',4,4',5,6-HEPTACHLOROBIPHENYL WWS WTR (UG/L)	PCB CONG#190	ug/L	41411-64-7				1/14/2016
97916	2,3,3',4,4',5',6-HEPTACHLOROBIPHENYL WWS WTR(UG/L)	PCB CONG#191	ug/L	74472-50-7				1/14/2016
97915	2,3,3',4,5,5',6-HEPTACHLOROBIPHENYL WWS WTR (UG/L)	PCB CONG#192	ug/L	74472-51-8				1/14/2016
97914	2,3,3',4',5,5',6-HEPTACHLOROBIPHENYL WWS WTR(UG/L)	PCB CONG#193	ug/L	69782-91-8				1/14/2016
77918	2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#194	ug/L	35694-08-7				1/14/2016
97913	2,2',3,3',4,4',5,6-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#195	ug/L	52663-78-2				1/14/2016
85749	PCB CONG #195/208 (UG/L)	PCB CONG#195/208	ug/L	53742-07-7				1/14/2016
97912	2,2',3,3',4,4',5,6'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#196	ug/L	42740-50-1				1/14/2016
85748	PCB CONG #196/203 (UG/L)	PCB CONG#196/203	ug/L					1/14/2016
77917	2,2',3,3',4,4',6,6'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#197	ug/L	33091-17-7				1/14/2016
97911	PCB CONG #197/200 (UG/L)	PCB CONG#197/200	ug/L					1/14/2016
97910	2,2',3,3',4,5,5',6-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#198	ug/L	68194-17-2				1/14/2016
97909	PCB CONG #198/199 (UG/L)	PCB CONG#198/199	ug/L					1/14/2016
97868	2,2',3,3',4,5,5',6'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#199	ug/L	52663-75-9				1/14/2016
97908	2,2',3,3',4,5,6,6'-OCTACHLOROBIPHENYL WWS(UG/L)	PCB CONG#200	ug/L	52663-73-7				1/14/2016
97867	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#201	ug/L	40186-71-8				1/14/2016
77916	2,2',3,3',5,5',6,6'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#202	ug/L	2136-99-4				1/14/2016
97907	2,2',3,4,4',5,5',6-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#203	ug/L	52663-76-0				1/14/2016
97906	2,2',3,4,4',5,6,6'-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#204	ug/L	74472-52-9				1/14/2016
97905	2,3,3',4,4',5,5',6-OCTACHLOROBIPHENYL WWS (UG/L)	PCB CONG#205	ug/L	74472-53-0				1/14/2016
97904	2,2',3,3',4,4',5,6,6'-NONACHLOROBIPHENYL WWS(UG/L)	PCB CONG#207	ug/L	52663-79-3				1/14/2016
97903	2,2',3,3',4,5,5',6,6'-NONACHLOROBIPHENYL WWS(UG/L)	PCB CONG#208	ug/L	52663-77-1				1/14/2016
79750	DECACHLOROBIPHENYL WHOLE WATER SAMPLE (UG/L)	PCB CONG#209	ug/L	2051-24-3				1/14/2016
97721	N-METHYLPERFLUORO-1-OCTANESULFONAMIDOACET WW(ug/L)	N-METHYLPF-1-OCT	ug/L	2355-31-9				7/26/2019
97722	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETI WW(ug/L)	N-ETHYLPF-1-OCT	ug/L	2991-50-6				7/26/2019

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS# PAL ENF STD	Date Changed
<u>99598</u>	<u>PERFLUORO-1-OCTANESULFONIC ACID (PFOS) WWS (ug/L)</u>	<u>PERFL-1-OCT ACID</u>	<u>ug/L</u>	<u>1763-23-1</u>	<u>10/24/2016</u>
<u>99597</u>	<u>PERFLUORO-N-OCTANOIC ACID (PFOA) WWS (ug/L)</u>	<u>PERFL-N-OCT ACID</u>	<u>ug/L</u>	<u>335-67-1</u>	<u>10/24/2016</u>
<u>99923</u>	<u>PERFLUORO-N-TRIDECANOIC ACID (PFTRDA) WWS (ug/L)</u>	<u>PERFL-N-TRI ACID</u>	<u>ug/L</u>	<u>72629-94-8</u>	<u>10/24/2016</u>
<u>99924</u>	<u>PERFLUORO-N-TETRADECANOIC ACID (PFTEDA) WWS (ug/L)</u>	<u>PERFL-N-TET ACID</u>	<u>ug/L</u>	<u>376-06-7</u>	<u>10/24/2016</u>
<u>99987</u>	<u>PERFLUORO-1-BUTANESULFONIC ACID (PFBS) WWS (ug/L)</u>	<u>PERFL-1-BUT ACID</u>	<u>ug/L</u>	<u>375-73-5</u>	<u>10/24/2016</u>
<u>99988</u>	<u>PERFLUORO-1-HEXANESULFONIC ACID (PFHXS) WWS (ug/L)</u>	<u>PERFL-1-HEX ACID</u>	<u>ug/L</u>	<u>355-46-4</u>	<u>10/24/2016</u>
<u>99991</u>	<u>PERFLUORO-N-BUTANOIC ACID (PFBA) WWS (ug/L)</u>	<u>PERFL-N-BUT ACID</u>	<u>ug/L</u>	<u>375-22-4</u>	<u>10/24/2016</u>
<u>99992</u>	<u>PERFLUORO-N-PENTANOIC ACID (PFPEA) WWS (ug/L)</u>	<u>PERFL-N-PEN ACID</u>	<u>ug/L</u>	<u>2706-90-3</u>	<u>10/24/2016</u>
<u>99993</u>	<u>PERFLUORO-N-HEXANOIC ACID (PFHXA) WWS (ug/L)</u>	<u>PERFL-N-HEX ACID</u>	<u>ug/L</u>	<u>307-24-4</u>	<u>10/24/2016</u>
<u>99994</u>	<u>PERFLUORO-N-HEPTANOIC ACID (PFHPA) WWS (ug/L)</u>	<u>PERFL-N-HEP ACID</u>	<u>ug/L</u>	<u>375-85-9</u>	<u>10/24/2016</u>
<u>99995</u>	<u>PERFLUORO-N-NONANOIC ACID (PFNA) WWS (ug/L)</u>	<u>PERFL-N-NON ACID</u>	<u>ug/L</u>	<u>375-95-1</u>	<u>10/24/2016</u>
<u>99996</u>	<u>PERFLUORO-N-DECANOIC ACID (PFDA) WWS (ug/L)</u>	<u>PERFL-N-DEC ACID</u>	<u>ug/L</u>	<u>335-76-2</u>	<u>10/24/2016</u>
<u>99997</u>	<u>PERFLUORO-N-UNDECANOIC ACID (PFUDA) WWS (ug/L)</u>	<u>PERFL-N-UND ACID</u>	<u>ug/L</u>	<u>2058-94-8</u>	<u>10/24/2016</u>
<u>99998</u>	<u>PERFLUORO-N-DODECANOIC ACID (PFDOA) WWS (ug/L)</u>	<u>PERFL-N-DOD ACID</u>	<u>ug/L</u>	<u>307-55-1</u>	<u>10/24/2016</u>
<u>552</u>	<u>OIL & GREASE, HEXANE EXTRACTABLE MATERIAL(HEM)MG/L</u>	<u>OIL&GREASE (HEM)</u>	<u>mg/L</u>		<u>11/1/2016</u>
<u>70300</u>	<u>RESIDUE, TOTAL FILTRABLE (TDS) DRIED AT 180C, MG/L</u>	<u>RESIDUE,TOT FILT</u>	<u>mg/L</u>		<u>7/26/2017</u>
<u>97622</u>	<u>MOTOR OIL RANGE ORGANICS, TOTAL, UG/L</u>	<u>MOTR OIL RG U/GL</u>	<u>ug/L</u>		<u>11/16/2017</u>
<u>97603</u>	<u>DIAMINOTOLUENE (2,4- AND 2,6-), TOTAL WATER (UG/L)</u>	<u>24+26DIAMINTOLUE</u>	<u>ug/L</u>		<u>12/7/2017</u>
<u>97430</u>	<u>CARBON, TOTAL IN WATER (TC) MG/L</u>	<u>TOTAL C IN H2O</u>	<u>mg/L</u>	<u>7440-44-0</u>	<u>3/13/2019</u>
<u>97431</u>	<u>CARBON, TOTAL INORGANIC IN WATER (TIC) MG/L</u>	<u>TOT C INORG WTR</u>	<u>mg/L</u>	<u>7440-44-0</u>	<u>3/13/2019</u>
<u>97432</u>	<u>9-CHLOROHEXADECAFLUORO-3-OXANONE-1-SULF(WTR)ug/L</u>	<u>9CL-PF3ONS</u>	<u>ug/L</u>	<u>756426-58-1</u>	<u>3/15/2019</u>
<u>97433</u>	<u>11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SUL(WTR)ug/L</u>	<u>11CL-PF3OUDS</u>	<u>ug/L</u>	<u>763051-92-9</u>	<u>3/15/2019</u>
<u>97434</u>	<u>4,8-DIOXA-3H-PERFLUORONONANOIC ACID (WTR) ug/L</u>	<u>DONA</u>	<u>ug/L</u>	<u>919005-14-4</u>	<u>3/15/2019</u>
<u>97435</u>	<u>HEXAFLUOROPROPYLENE OXIDE DIMER ACID (WTR) ug/L</u>	<u>HFPO-DA</u>	<u>ug/L</u>	<u>13252-13-6</u>	<u>3/15/2019</u>
<u>97425</u>	<u>PERFLUOROPENTANESULFONIC ACID (PFPE) WWS (ug/L)</u>	<u>PFPE IN WTR</u>	<u>ug/L</u>	<u>2706-91-4</u>	<u>7/26/2019</u>
<u>99989</u>	<u>PERFLUORO-1-HEPTANESULFONIC ACID (PFHPS) WWS ug/L</u>	<u>PFHPS IN WTR</u>	<u>ug/L</u>	<u>375-92-8</u>	<u>7/26/2019</u>
<u>97424</u>	<u>PERFLUORONONANESULFONIC ACID (PFNS) WWS (ug/L)</u>	<u>PFNS IN WTR</u>	<u>ug/L</u>	<u>68259-12-1</u>	<u>7/26/2019</u>
<u>99990</u>	<u>PERFLUORO-1-DECANESULFONIC ACID (PFDS) WWS (ug/L)</u>	<u>PFPE IN WTR</u>	<u>ug/L</u>	<u>335-77-3</u>	<u>7/26/2019</u>
<u>97423</u>	<u>PERFLUORODODECANESULFONIC ACID (PFDOS) WWS ug/L</u>	<u>PFDOS IN WTR</u>	<u>ug/L</u>	<u>79780-39-5</u>	<u>7/26/2019</u>
<u>97422</u>	<u>PERFLUOROCTANESULFONAMIDE (FOSA) WWS (ug/L)</u>	<u>FOSA IN WTR</u>	<u>ug/L</u>	<u>754-91-6</u>	<u>7/26/2019</u>
<u>97421</u>	<u>N-METHYL PERFLUOROCTANESULFONAMIDE WWS ug/L</u>	<u>NMEFOSA IN WTR</u>	<u>ug/L</u>	<u>31506-32-8</u>	<u>7/26/2019</u>
<u>97420</u>	<u>N-ETHYL PERFLUOROCTANESULFONAMIDE WWS (ug/L)</u>	<u>NETFOSA IN WTR</u>	<u>ug/L</u>	<u>4151-50-2</u>	<u>7/26/2019</u>
<u>97417</u>	<u>N-METHYL PERFLUOROCTANESULFONAMIDOETHAN WWS ug/L</u>	<u>N-MEFOSE IN WTR</u>	<u>ug/L</u>	<u>24448-09-7</u>	<u>7/26/2019</u>
<u>97416</u>	<u>N-ETHYL PERFLUOROCTANESULFONAMIDOETH WWS (ug/L)</u>	<u>N-ETFOSE IN WTR</u>	<u>ug/L</u>	<u>1691-99-2</u>	<u>7/26/2019</u>

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
97415	4:2 FLUOROTELOMER SULFONIC ACID WWS (ug/L)	4:2 FTSA IN WTR	ug/L	757124-72-4				7/26/2019
97414	6:2 FLUOROTELOMER SULFONIC ACID WWS (ug/L)	6:2 FTSA IN WTR	ug/L	27619-97-2				7/26/2019
97413	8:2 FLUOROTELOMER SULFONIC ACID WWS (ug/L)	8:2 FTSA IN WTR	ug/L	39108-34-4				7/26/2019
97412	10:2 FLUOROTELOMER SULFONIC ACID WWS (ug/L)	10:2 FTSA IN WTR	ug/L	120226-60-0				7/26/2019
97410	PERFLUORO-N-HEXADECANOIC ACID (PFHXDA) WWS ug/L	PFHXDA IN WTR	ug/L	67905-19-5				7/26/2019
97409	PERFLUORO-N-OCTADECANOIC ACID (PFODA) WWS (ug/L)	PFODA IN WTR	ug/L	16517-11-6				7/26/2019
97437	N-METHYL PERFLUOROOCTANESULFONAMIDOACETIC WW(ug/L)	NMEFOSSAA IN WTR	ug/L	2355-31-9				7/26/2019
97436	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETI WW(ug/L)	NETFOSAA IN WTR	ug/L	2991-50-6				7/26/2019
00023	ELEVATION, LEACHATE HEAD IN FEET ABOVE MSL	LCHATE HEAD ELEV	ft					11/8/2019
72020	ELEVATION, GROUNDWATER (FEET ABOVE MSL)	GRNDWTR ELEV,MSL	ft					11/19/2019
78721	PHTHALATES, TOTAL IN WHL WTR SAMPLE (MG/L)	TOTAL PHTHALATES	mg/L					3/6/2020
39141	CREOSOTE, TOTAL (UG/L)	CREOSOTE, TOTAL	ug/L	8001-58-9				3/12/2020
32017	SODIUM CHLORIDE (MG/L)	NEED TO POPULATE	mg/L	7647-14-5				4/27/2020
11503	RADIUM 226 + 228 TOTAL IN WATER (PCI/L)	RADIUM 226/228 TOTAL	pCi/L	7440-14-4		5		1/13/2023
1150	TITANIUM, DISSOLVED (MG/L TI)	TITANIUM(TI),DIS	mg/L	7440-32-6				~1/20/2023
97409	PERFLUORO-N-OCTADECANOIC ACID (PFODA) WWS (ug ng/L)	PFODA IN WTR	ug ng/L	16517-11-6				~2/17/2023
97410	PERFLUORO-N-HEXADECANOIC ACID (PFHXDA) WWS ug ng/L	PFHXDA IN WTR	ug ng/L	67905-19-5				~2/17/2023
97412	10:2 FLUOROTELOMER SULFONIC ACID WWS (ug ng/L)	10:2 FTSA IN WTR	ug ng/L	120226-60-0				~2/17/2023
97413	8:2 FLUOROTELOMER SULFONIC ACID WWS (ug ng/L)	8:2 FTSA IN WTR	ug ng/L	39108-34-4				~2/17/2023
97414	6:2 FLUOROTELOMER SULFONIC ACID WWS (ug ng/L)	6:2 FTSA IN WTR	ug ng/L	27619-97-2				~2/17/2023
97415	4:2 FLUOROTELOMER SULFONIC ACID WWS (ug ng/L)	4:2 FTSA IN WTR	ug ng/L	757124-72-4				~2/17/2023
97416	N-ETHYL PERFLUOROOCTANESULFONAMIDOETH WWS (ug ng/L)	N-ETFOSE IN WTR	ug ng/L	1691-99-2				~2/17/2023
97417	N-METHYL PERFLUOROOCTANESULFONAMIDOETHAN WWS ug ng/	N-MEFOSE IN WTR	ug ng/L	24448-09-7				~2/17/2023
97420	N-ETHYL PERFLUOROOCTANESULFONAMIDE WWS (ug ng/L)	NETFOSA IN WTR	ug ng/L	4151-50-2				~2/17/2023
97421	N-METHYL PERFLUOROOCTANESULFONAMIDE WWS ug ng/L	NMEFOSA IN WTR	ug ng/L	31506-32-8				~2/17/2023
97422	PERFLUOROOCTANESULFONAMIDE (FOSA) WWS (ug ng/L)	FOSA IN WTR	ug ng/L	754-91-6				~2/17/2023
97423	PERFLUORODODECANESULFONIC ACID (PFDOS) WWS ug ng/L	PFDOS IN WTR	ug ng/L	79780-39-5				~2/17/2023
97424	PERFLUORONONANESULFONIC ACID (PFNS) WWS (ug ng/L)	PFNS IN WTR	ug ng/L	68259-12-1				~2/17/2023
97425	PERFLUOROPENTANESULFONIC ACID (PFPE) WWS (ug ng/L)	PFPE IN WTR	ug ng/L	2706-91-4				~2/17/2023
97432	9-CHLOROHEXADEC AFLUORO-3-OXANONE-1-SULF(WTR)ug ng/L	9CL-PF3ONS	ug ng/L	756426-58-1				~2/17/2023
97433	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SUL(WTR)ug ng/L	11CL-PF3OUDS	ug ng/L	763051-92-9				~2/17/2023
97434	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (WTR) ug ng/L	DONA	ug ng/L	919005-14-4				~2/17/2023

GEMS Parm#	Parameter Description	Parm Abbrev.	Units	CAS#	PAL	ENF	STD	Date Changed
97435	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (WTR) ug ng/L	HFPO-DA	ug ng/L	13252-13-6				~2/17/2023
97436	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETI WW(ug ng/L)	NETFOSAA IN WTR	ug ng/L	2991-50-6				~2/17/2023
97437	N-METHYL PERFLUOROOCOTANESULFONAMIDOACETIC WW(ug ng/l)	NMEFOSSAA IN WTR	ug ng/L	2355-31-9				~2/17/2023
99597	PERFLUORO-N-OCTANOIC ACID (PFOA) WWS (ug ng/L)	PERFL-N-OCT ACID	ug ng/L	335-67-1				~2/17/2023
99598	PERFLUORO-1-OCTANESULFONIC ACID (PFOS) WWS (ug ng/L)	PERFL-1-OCT ACID	ug ng/L	1763-23-1				~2/17/2023
99923	PERFLUORO-N-TRIDECANOIC ACID (PFTRDA) WWS (ug ng/L)	PERFL-N-TRI ACID	ug ng/L	72629-94-8				~2/17/2023
99924	PERFLUORO-N-TETRADECANOIC ACID (PFTEDA) WWS (ug ng/L)	PERFL-N-TET ACID	ug ng/L	376-06-7				~2/17/2023
99987	PERFLUORO-1-BUTANESULFONIC ACID (PFBS) WWS (ug ng/L)	PERFL-1-BUT ACID	ug ng/L	375-73-5				~2/17/2023
99988	PERFLUORO-1-HEXANESULFONIC ACID (PFHXS) WWS (ug ng/L)	PERFL-1-HEX ACID	ug ng/L	355-46-4				~2/17/2023
99989	PERFLUORO-1-HEPTANESULFONIC ACID (PFHPS) WWS ug ng/L	PFHPS IN WTR	ug ng/L	375-92-8				~2/17/2023
99990	PERFLUORO-1-DECANESULFONIC ACID (PFDS) WWS (ug ng/L)	PFDES IN WTR	ug ng/L	335-77-3				~2/17/2023
99991	PERFLUORO-N-BUTANOIC ACID (PFBA) WWS (ug ng/L)	PERFL-N-BUT ACID	ug ng/L	375-22-4				~2/17/2023
99992	PERFLUORO-N-PENTANOIC ACID (PFPEA) WWS (ug ng/L)	PERFL-N-PEN ACID	ug ng/L	2706-90-3				~2/17/2023
99993	PERFLUORO-N-HEXANOIC ACID (PFHXA) WWS (ug ng/L)	PERFL-N-HEX ACID	ug ng/L	307-24-4				~2/17/2023
99994	PERFLUORO-N-HEPTANOIC ACID (PFHPA) WWS (ug ng/L)	PERFL-N-HEP ACID	ug ng/L	375-85-9				~2/17/2023
99995	PERFLUORO-N-NONANOIC ACID (PFNA) WWS (ug ng/L)	PERFL-N-NON ACID	ug ng/L	375-95-1				~2/17/2023
99996	PERFLUORO-N-DECANOIC ACID (PFDA) WWS (ug ng/L)	PERFL-N-DEC ACID	ug ng/L	335-76-2				~2/17/2023
99997	PERFLUORO-N-UNDECANOIC ACID (PFUDA) WWS (ug ng/L)	PERFL-N-UND ACID	ug ng/L	2058-94-8				~2/17/2023
99998	PERFLUORO-N-DODECANOIC ACID (PFDOA) WWS (ug ng/L)	PERFL-N-DOD ACID	ug ng/L	307-55-1				~2/17/2023

01055 & 01056 Effective January 1, 2011, NR 140 was revised. Fifteen new state groundwater quality standards were added and 15 existing standards were revised (although not all of the substances are required by GEMS). Make sure you have an updated copy of NR 140. All of the GEMS parameter code tables available in Appendix III of *Procedures for Preparing and Submitting Landfill Environmental Monitoring Data* have been updated to include the new substances and the revised enforcement standards (ES) and preventive action limits (PAL). 1/1/2011

Of special note about the NR140 revision: A public health-based (Table 1) ES of 300 ppb and a PAL of 60 ppb for Manganese were established. The previous welfare-based (Table 2) ES (50 ppb) and PAL (25 ppb) remain in effect. So there are now two standards in NR 140 for Manganese. Manganese is the only NR140 parameter reportable to GEMS included on both tables.

How to report ES and PALS to GEMS for Manganese (Mn): GEMS is not designed to distinguish whether the ES or PAL for Mn originates from NR140 Table 1 or 2. However, data submitters need not be concerned about this but need only to report the exceeded result value for Mn to GEMS and whether it was an ES or PAL regardless of which Table (1 or 2) the exceedance came from. The type of exceedance (ES or PAL) and table (Health or Welfare) will be evident to the data reviewer based on the result value. You may wish to review the Mn standards listed below to confirm for yourself why this would be evident:

- Public Welfare PAL (PW PAL) = 25 ppb
- Public Welfare ES (PW ES) = 50 ppb
- Public Health PAL (PH PAL) = 60 ppb
- Public Health ES (PH ES) = 300 ppb

- Result =
- < 25 ppb.....No standards apply.
 - 25 - 49 ppb.....PW PAL
 - 50 - 59 ppb.....PW ES & PW PAL
 - 60 - 299 ppb.....PH PAL & PW ES & PW PAL
 - >299 ppb.....PH ES & PH PAL & PW ES & PW PAL