

Method Detection Limit Study

Description:

ACZ Matrix Specific WAD CN MDL/PQL Study for Fort Knox

WG465102 (Prep WG = WG465021) = L49467-01, L49467-02

WG465189 (Prep WG = WG465121) = L49467-03, L49467-04

WG465570 (Prep WG = WG465294) = L49467-05, L49467-06

WG465574 (Prep WG = WG465418) = L49467-07, L49467-08

MDL Study performed according to 40 CFR Part 136 Appendix B

¹**Matrix Specific MDL = 16 µg/L**

²**Matrix Specific reporting limit/quantitation limit/minimum level = 3×[MDL] = 48 µg/L**

① The sample's signal-to-noise ratio is a little over 20, so the resulting matrix specific MDL is likely biased high.

② A consistent definition of the minimum level or how to derive it could not be found. The glossary to method 608.3, published in 40 CFR Part 136, states: "Minimum level (ML)—The term "minimum level" refers to either the sample concentration equivalent to the lowest calibration point in a method or a multiple of the method detection limit (MDL), whichever is higher. Minimum levels may be obtained in several ways: They may be published in a method; they may be based on the lowest acceptable calibration point used by a laboratory; or they may be calculated by multiplying the MDL in a method, or the MDL determined by a laboratory, by a factor of 3. For the purposes of NPDES compliance monitoring, EPA considers the following terms to be synonymous: "quantitation limit," "reporting limit," and "minimum level.""

In the laboratory's assessment, the most appropriate way to determine a *matrix specific* ML is to multiply the *matrix specific* MDL or standard deviation by a factor. The laboratory selected the option of multiplying the matrix specific MDL by a factor of three.

SOP Title:	Cyanide Lachat Inst.	Analyst's Name:	Paul Baker, Tyler Gebel
SOP ID:	SOPWC058, 1335	ICV SCN:	WI190124-7
Method:	SM 4500CN- I,E	CCV SCN:	WI190111-10, WI190126-2
Instrument ID:	FIA1, FIA2	Calibration WG:	WG465102, WG465189, WG465570, WG465574
Matrix:	AQ	Units:	µg/L
Analytical Date:	1-24-19 through 2-1-19	MDL Source:	L49467-01-08

MDL	Analyte	rep-1	rep-2	rep-3	rep-4	rep-5	rep-6	rep-7	rep-8	mean	std dev.	calc. MDL	ACZ MDL
	CN-WAD	53.0	58.0	44.0	45.0	56.0	57.0	50.0	51.0	51.8	5.285	16	3.0

$$MDL = t_{(n-1, 1-\alpha = 0.99)} S$$

Where:

MDL = the method detection limit based on the sample matrix

$t_{(n-1, 1-\alpha = 0.99)}$ = the Student's t-value appropriate for a single-tailed 99th percentile t statistic and a standard deviation estimate with n-1 degrees of freedom.

S = sample standard deviation of the replicate sample analyses.

Reviewed by:

Matt Sowards

President/QAO

Signature

Description: 40 CFR Addendum to Section II of Appendix B to Part 136 requires that the MDL_b be calculated using method blanks. Data for method blanks analyzed over the course of one year and the MDL_b calculated from this data are presented below. The greater of the matrix specific MDL or MDL_b is to be selected; in this case the matrix specific MDL is greater.

Date range 2/9/18 to 2/8/19

X	S _b	n-1	t(n-1, 1-α = 0.99)	MDL _b	UNITS	% false+
-0.134585	0.948328	249	2.341	2.2	µg/L	0

$$MDL_b = X + t_{(n-1, 1-\alpha = 0.99)} S_b$$

Where:

MDL_b = the MDL based on method blanks

X = mean of the method blank results (use zero in place of the mean if the mean is negative)

t_(n-1, 1-α = 0.99) = the Student's t-value appropriate for the single-tailed 99th percentile t statistic and a standard deviation estimate with n-1 degrees of freedom.

S_b = sample standard deviation of the replicate method blank sample analyses.

WORKNUM	SAMPLENUM	PARAMETER	RESULT	UNITS	Standard		MATRIX	MEASUREDATE
					MDL	PQL		
WG441654	WG441343LRB	CYANIDE	-0.37	µg/L	3	10	LIQUID	10-Feb-18
WG441654	WG441615LRB	CYANIDE	1.10	µg/L	3	10	LIQUID	10-Feb-18
WG441886	WG441748LRB	CYANIDE	-0.14	µg/L	3	10	LIQUID	14-Feb-18
WG441887	WG441766LRB	CYANIDE	-0.84	µg/L	3	10	LIQUID	14-Feb-18
WG441957	WG441797LRB	CYANIDE	0.34	µg/L	3	10	LIQUID	15-Feb-18
WG441959	WG441829LRB	CYANIDE	-0.19	µg/L	3	10	LIQUID	15-Feb-18
WG441960	WG441845LRB	CYANIDE	0.56	µg/L	3	10	LIQUID	15-Feb-18
WG441961	WG441893LRB	CYANIDE	0.15	µg/L	3	10	LIQUID	15-Feb-18
WG442127	WG442058LRB	CYANIDE	0.03	µg/L	3	10	LIQUID	19-Feb-18
WG442263	WG442171LRB	CYANIDE	-0.45	µg/L	3	10	LIQUID	21-Feb-18
WG442269	WG442226LRB	CYANIDE	-0.14	µg/L	3	10	LIQUID	21-Feb-18
WG442347	WG442313LRB	CYANIDE	-0.08	µg/L	3	10	LIQUID	22-Feb-18
WG442511	WG442466LRB	CYANIDE	-1.40	µg/L	3	10	LIQUID	26-Feb-18
WG442750	WG442710LRB	CYANIDE	0.15	µg/L	3	10	LIQUID	01-Mar-18
WG442753	WG442720LRB	CYANIDE	-0.02	µg/L	3	10	LIQUID	01-Mar-18
WG442817	WG442603LRB	CYANIDE	0.41	µg/L	3	10	LIQUID	02-Mar-18
WG442961	WG442903LRB	CYANIDE	-0.18	µg/L	3	10	LIQUID	06-Mar-18
WG442966	WG442837LRB	CYANIDE	-0.71	µg/L	3	10	LIQUID	06-Mar-18
WG443049	WG442981LRB	CYANIDE	-0.79	µg/L	3	10	LIQUID	07-Mar-18
WG443051	WG443032LRB	CYANIDE	-0.44	µg/L	3	10	LIQUID	07-Mar-18
WG443172	WG443145LRB	CYANIDE	0.12	µg/L	3	10	LIQUID	09-Mar-18
WG443303	WG443237LRB	CYANIDE	-0.22	µg/L	3	10	LIQUID	13-Mar-18
WG443576	WG443446LRB	CYANIDE	-0.45	µg/L	3	10	LIQUID	16-Mar-18
WG443715	WG443611LRB	CYANIDE	0.87	µg/L	3	10	LIQUID	20-Mar-18
WG443743	WG443676LRB	CYANIDE	-0.52	µg/L	3	10	LIQUID	20-Mar-18
WG443855	WG443791LRB	CYANIDE	-0.28	µg/L	3	10	LIQUID	21-Mar-18
WG444048	WG443862LRB	CYANIDE	-0.38	µg/L	3	10	LIQUID	23-Mar-18
WG444051	WG443898LRB	CYANIDE	0.18	µg/L	3	10	LIQUID	24-Mar-18
WG444052	WG443979LRB	CYANIDE	-1.30	µg/L	3	10	LIQUID	24-Mar-18
WG444053	WG443989LRB	CYANIDE	-0.13	µg/L	3	10	LIQUID	24-Mar-18
WG444123	WG444068LRB	CYANIDE	0.25	µg/L	3	10	LIQUID	26-Mar-18
WG444127	WG444093LRB	CYANIDE	-0.23	µg/L	3	10	LIQUID	26-Mar-18
WG444322	WG444229LRB	CYANIDE	-1.80	µg/L	3	10	LIQUID	28-Mar-18
WG444468	WG444263LRB	CYANIDE	0.65	µg/L	3	10	LIQUID	30-Mar-18
WG444471	WG444416LRB	CYANIDE	1.10	µg/L	3	10	LIQUID	30-Mar-18

WG444477	WG444340LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	30-Mar-18
WG444632	WG444442LRB	CYANIDE	-0.75	µg/L	3	10	LIQUID	03-Apr-18
WG444633	WG444611LRB	CYANIDE	0.20	µg/L	3	10	LIQUID	03-Apr-18
WG444916	WG444886LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	07-Apr-18
WG444986	WG444940LRB	CYANIDE	0.81	µg/L	3	10	LIQUID	09-Apr-18
WG445216	WG445127LRB	CYANIDE	-0.14	µg/L	3	10	LIQUID	11-Apr-18
WG445217	WG445145LRB	CYANIDE	-0.47	µg/L	3	10	LIQUID	11-Apr-18
WG445219	WG445167LRB	CYANIDE	-2.70	µg/L	3	10	LIQUID	13-Apr-18
WG445281	WG445238LRB	CYANIDE	0.14	µg/L	3	10	LIQUID	12-Apr-18
WG445291	WG445252LRB	CYANIDE	0.17	µg/L	3	10	LIQUID	12-Apr-18
WG445390	WG445387LRB	CYANIDE	1.10	µg/L	3	10	LIQUID	13-Apr-18
WG445543	WG445464LRB	CYANIDE	-1.20	µg/L	3	10	LIQUID	17-Apr-18
WG445679	WG445614LRB	CYANIDE	-0.33	µg/L	3	10	LIQUID	18-Apr-18
WG445914	WG445777LRB	CYANIDE	-0.22	µg/L	3	10	LIQUID	23-Apr-18
WG445917	WG445853LRB	CYANIDE	0.26	µg/L	3	10	LIQUID	23-Apr-18
WG445925	WG445851LRB	CYANIDE	1.00	µg/L	3	10	LIQUID	23-Apr-18
WG445996	WG445963LRB	CYANIDE	-0.28	µg/L	3	10	LIQUID	24-Apr-18
WG446007	WG445969LRB	CYANIDE	-0.49	µg/L	3	10	LIQUID	24-Apr-18
WG446159	WG446080LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	26-Apr-18
WG446327	WG446305LRB	CYANIDE	2.50	µg/L	3	10	LIQUID	30-Apr-18
WG446433	WG446375LRB	CYANIDE	1.70	µg/L	3	10	LIQUID	01-May-18
WG446644	WG446551LRB	CYANIDE	0.66	µg/L	3	10	LIQUID	03-May-18
WG446646	WG446568LRB	CYANIDE	-0.09	µg/L	3	10	LIQUID	03-May-18
WG446688	WG446651LRB	CYANIDE	0.06	µg/L	3	10	LIQUID	04-May-18
WG446805	WG446763LRB	CYANIDE	0.35	µg/L	3	10	LIQUID	07-May-18
WG446914	WG446885LRB	CYANIDE	-0.70	µg/L	3	10	LIQUID	08-May-18
WG447136	WG446922LRB	CYANIDE	-0.11	µg/L	3	10	LIQUID	10-May-18
WG447137	WG447036LRB	CYANIDE	-0.13	µg/L	3	10	LIQUID	10-May-18
WG447224	WG447177LRB	CYANIDE	-0.43	µg/L	3	10	LIQUID	11-May-18
WG447381	WG447230LRB	CYANIDE	-0.71	µg/L	3	10	LIQUID	15-May-18
WG447411	WG447371LRB	CYANIDE	-0.31	µg/L	3	10	LIQUID	15-May-18
WG447483	WG447337LRB	CYANIDE	0.78	µg/L	3	10	LIQUID	16-May-18
WG447513	WG447267LRB	CYANIDE	0.21	µg/L	3	10	LIQUID	16-May-18
WG447702	WG447422LRB	CYANIDE	-0.56	µg/L	3	10	LIQUID	18-May-18
WG447721	WG447575LRB	CYANIDE	-0.61	µg/L	3	10	LIQUID	18-May-18
WG447931	WG447841LRB	CYANIDE	-0.10	µg/L	3	10	LIQUID	23-May-18
WG448051	WG447958LRB	CYANIDE	0.44	µg/L	3	10	LIQUID	23-May-18
WG448053	WG447959LRB	CYANIDE	-2.80	µg/L	3	10	LIQUID	23-May-18
WG448239	WG448104LRB	CYANIDE	-1.80	µg/L	3	10	LIQUID	25-May-18
WG448241	WG448115LRB	CYANIDE	-3.30	µg/L	3	10	LIQUID	25-May-18
WG448243	WG448157LRB	CYANIDE	-0.76	µg/L	3	10	LIQUID	25-May-18
WG448247	WG448201LRB	CYANIDE	-1.50	µg/L	3	10	LIQUID	26-May-18
WG448249	WG448209LRB	CYANIDE	-2.10	µg/L	3	10	LIQUID	26-May-18
WG448310	WG448264LRB	CYANIDE	-4.30	µg/L	3	10	LIQUID	29-May-18
WG448346	WG448318LRB	CYANIDE	-5.20	µg/L	3	10	LIQUID	29-May-18
WG448446	WG448407LRB	CYANIDE	-1.20	µg/L	3	10	LIQUID	30-May-18
WG448639	WG448520LRB	CYANIDE	-0.02	µg/L	3	10	LIQUID	04-Jun-18
WG448783	WG448616LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	05-Jun-18
WG448914	WG448862LRB	CYANIDE	-0.31	µg/L	3	10	LIQUID	07-Jun-18
WG448922	WG448825LRB	CYANIDE	0.03	µg/L	3	10	LIQUID	07-Jun-18
WG448941	WG448846LRB	CYANIDE	-0.55	µg/L	3	10	LIQUID	07-Jun-18
WG449170	WG449120LRB	CYANIDE	-0.80	µg/L	3	10	LIQUID	11-Jun-18
WG449196	WG449029LRB	CYANIDE	-0.55	µg/L	3	10	LIQUID	11-Jun-18

WG449304	WG449221LRB	CYANIDE	-0.41	µg/L	3	10	LIQUID	12-Jun-18
WG449305	WG449247LRB	CYANIDE	0.00	µg/L	3	10	LIQUID	12-Jun-18
WG449435	WG449402LRB	CYANIDE	0.17	µg/L	3	10	LIQUID	13-Jun-18
WG449533	WG449467LRB	CYANIDE	0.15	µg/L	3	10	LIQUID	14-Jun-18
WG449636	WG449547LRB	CYANIDE	-1.90	µg/L	3	10	LIQUID	15-Jun-18
WG449638	WG449517LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	16-Jun-18
WG449731	WG449667LRB	CYANIDE	0.22	µg/L	3	10	LIQUID	18-Jun-18
WG449747	WG449697LRB	CYANIDE	0.82	µg/L	3	10	LIQUID	18-Jun-18
WG449882	WG449839LRB	CYANIDE	-0.31	µg/L	3	10	LIQUID	19-Jun-18
WG449961	WG449901LRB	CYANIDE	0.54	µg/L	3	10	LIQUID	20-Jun-18
WG450107	WG449955LRB	CYANIDE	0.75	µg/L	3	10	LIQUID	21-Jun-18
WG450110	WG450085LRB	CYANIDE	1.00	µg/L	3	10	LIQUID	21-Jun-18
WG450279	WG450252LRB	CYANIDE	-0.21	µg/L	3	10	LIQUID	25-Jun-18
WG450293	WG450262LRB	CYANIDE	-1.70	µg/L	3	10	LIQUID	25-Jun-18
WG450387	WG450112LRB	CYANIDE	0.65	µg/L	3	10	LIQUID	26-Jun-18
WG450389	WG450306LRB	CYANIDE	0.01	µg/L	3	10	LIQUID	26-Jun-18
WG450490	WG450394LRB	CYANIDE	-1.40	µg/L	3	10	LIQUID	27-Jun-18
WG450493	WG450441LRB	CYANIDE	0.00	µg/L	3	10	LIQUID	27-Jun-18
WG450620	WG450554LRB	CYANIDE	-1.10	µg/L	3	10	LIQUID	28-Jun-18
WG450622	WG450569LRB	CYANIDE	-0.16	µg/L	3	10	LIQUID	28-Jun-18
WG450706	WG450655LRB	CYANIDE	-1.50	µg/L	3	10	LIQUID	29-Jun-18
WG450922	WG450757LRB	CYANIDE	2.30	µg/L	3	10	LIQUID	03-Jul-18
WG450926	WG450830LRB	CYANIDE	1.70	µg/L	3	10	LIQUID	03-Jul-18
WG450943	WG450884LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	04-Jul-18
WG451030	WG450967LRB	CYANIDE	-0.15	µg/L	3	10	LIQUID	05-Jul-18
WG451203	WG451126LRB	CYANIDE	0.22	µg/L	3	10	LIQUID	07-Jul-18
WG451290	WG451260LRB	CYANIDE	0.54	µg/L	3	10	LIQUID	09-Jul-18
WG451709	WG451452LRB	CYANIDE	0.52	µg/L	3	10	LIQUID	13-Jul-18
WG451711	WG451512LRB	CYANIDE	0.70	µg/L	3	10	LIQUID	13-Jul-18
WG451895	WG451665LRB	CYANIDE	0.22	µg/L	3	10	LIQUID	17-Jul-18
WG451897	WG451822LRB	CYANIDE	-0.16	µg/L	3	10	LIQUID	17-Jul-18
WG452015	WG451981LRB	CYANIDE	0.83	µg/L	3	10	LIQUID	18-Jul-18
WG452117	WG452023LRB	CYANIDE	0.46	µg/L	3	10	LIQUID	20-Jul-18
WG452280	WG452074LRB	CYANIDE	-1.20	µg/L	3	10	LIQUID	23-Jul-18
WG452328	WG452238LRB	CYANIDE	0.39	µg/L	3	10	LIQUID	24-Jul-18
WG452338	WG452254LRB	CYANIDE	-0.77	µg/L	3	10	LIQUID	24-Jul-18
WG452513	WG452434LRB	CYANIDE	-0.37	µg/L	3	10	LIQUID	25-Jul-18
WG452515	WG452452LRB	CYANIDE	-0.98	µg/L	3	10	LIQUID	26-Jul-18
WG452722	WG452666LRB	CYANIDE	0.64	µg/L	3	10	LIQUID	28-Jul-18
WG452820	WG452780LRB	CYANIDE	-1.00	µg/L	3	10	LIQUID	30-Jul-18
WG453129	WG452928LRB	CYANIDE	1.20	µg/L	3	10	LIQUID	02-Aug-18
WG453131	WG453056LRB	CYANIDE	0.22	µg/L	3	10	LIQUID	02-Aug-18
WG453227	WG453137LRB	CYANIDE	0.41	µg/L	3	10	LIQUID	03-Aug-18
WG453478	WG453322LRB	CYANIDE	0.73	µg/L	3	10	LIQUID	08-Aug-18
WG453522	WG453459LRB	CYANIDE	0.37	µg/L	3	10	LIQUID	08-Aug-18
WG453718	WG453271LRB	CYANIDE	-1.50	µg/L	3	10	LIQUID	09-Aug-18
WG453720	WG453601LRB	CYANIDE	-0.37	µg/L	3	10	LIQUID	09-Aug-18
WG454032	WG453933LRB	CYANIDE	-0.20	µg/L	3	10	LIQUID	14-Aug-18
WG454116	WG454048LRB	CYANIDE	2.50	µg/L	3	10	LIQUID	15-Aug-18
WG454239	WG454149LRB	CYANIDE	0.50	µg/L	3	10	LIQUID	16-Aug-18
WG454541	WG454295LRB	CYANIDE	1.00	µg/L	3	10	LIQUID	21-Aug-18
WG454818	WG454619LRB	CYANIDE	0.68	µg/L	3	10	LIQUID	23-Aug-18
WG455002	WG454944LRB	CYANIDE	0.75	µg/L	3	10	LIQUID	27-Aug-18

WG455239	WG454858LRB	CYANIDE	-0.77	µg/L	3	10	LIQUID	29-Aug-18
WG455240	WG455048LRB	CYANIDE	0.19	µg/L	3	10	LIQUID	30-Aug-18
WG455348	WG455117LRB	CYANIDE	0.03	µg/L	3	10	LIQUID	30-Aug-18
WG455349	WG455159LRB	CYANIDE	0.33	µg/L	3	10	LIQUID	30-Aug-18
WG455350	WG455289LRB	CYANIDE	0.54	µg/L	3	10	LIQUID	30-Aug-18
WG455692	WG455471LRB	CYANIDE	0.55	µg/L	3	10	LIQUID	05-Sep-18
WG455694	WG455505LRB	CYANIDE	0.30	µg/L	3	10	LIQUID	05-Sep-18
WG455806	WG455622LRB	CYANIDE	-0.12	µg/L	3	10	LIQUID	06-Sep-18
WG456181	WG455913LRB	CYANIDE	-0.41	µg/L	3	10	LIQUID	12-Sep-18
WG456346	WG456015LRB	CYANIDE	-0.56	µg/L	3	10	LIQUID	13-Sep-18
WG456618	WG456551LRB	CYANIDE	0.37	µg/L	3	10	LIQUID	18-Sep-18
WG456632	WG456368LRB	CYANIDE	-0.18	µg/L	3	10	LIQUID	18-Sep-18
WG456634	WG456427LRB	CYANIDE	-1.20	µg/L	3	10	LIQUID	18-Sep-18
WG456729	WG456640LRB	CYANIDE	0.41	µg/L	3	10	LIQUID	19-Sep-18
WG456898	WG456803LRB	CYANIDE	1.50	µg/L	3	10	LIQUID	21-Sep-18
WG457126	WG456956LRB	CYANIDE	2.00	µg/L	3	10	LIQUID	25-Sep-18
WG457366	WG457152LRB	CYANIDE	0.64	µg/L	3	10	LIQUID	27-Sep-18
WG457368	WG457150LRB	CYANIDE	-0.17	µg/L	3	10	LIQUID	27-Sep-18
WG457369	WG457285LRB	CYANIDE	-0.12	µg/L	3	10	LIQUID	27-Sep-18
WG457461	WG457288LRB	CYANIDE	-0.16	µg/L	3	10	LIQUID	28-Sep-18
WG457674	WG457499LRB	CYANIDE	0.43	µg/L	3	10	LIQUID	02-Oct-18
WG457774	WG457701LRB	CYANIDE	1.40	µg/L	3	10	LIQUID	03-Oct-18
WG458199	WG457907LRB	CYANIDE	0.77	µg/L	3	10	LIQUID	09-Oct-18
WG458414	WG458107LRB	CYANIDE	0.70	µg/L	3	10	LIQUID	11-Oct-18
WG458419	WG458226LRB	CYANIDE	-1.10	µg/L	3	10	LIQUID	11-Oct-18
WG458501	WG458325LRB	CYANIDE	0.27	µg/L	3	10	LIQUID	13-Oct-18
WG458502	WG458423LRB	CYANIDE	0.95	µg/L	3	10	LIQUID	13-Oct-18
WG458574	WG458328LRB	CYANIDE	0.92	µg/L	3	10	LIQUID	16-Oct-18
WG458865	WG458803LRB	CYANIDE	-0.60	µg/L	3	10	LIQUID	18-Oct-18
WG458868	WG458627LRB	CYANIDE	-0.40	µg/L	3	10	LIQUID	19-Oct-18
WG459291	WG459046LRB	CYANIDE	-0.22	µg/L	3	10	LIQUID	25-Oct-18
WG459304	WG459183LRB	CYANIDE	-0.28	µg/L	3	10	LIQUID	25-Oct-18
WG459405	WG459242LRB	CYANIDE	-0.73	µg/L	3	10	LIQUID	26-Oct-18
WG459408	WG459351LRB	CYANIDE	0.72	µg/L	3	10	LIQUID	26-Oct-18
WG459604	WG459440LRB	CYANIDE	0.19	µg/L	3	10	LIQUID	30-Oct-18
WG459873	WG459722LRB	CYANIDE	0.55	µg/L	3	10	LIQUID	02-Nov-18
WG460046	WG459887LRB	CYANIDE	-0.48	µg/L	3	10	LIQUID	06-Nov-18
WG460056	WG459996LRB	CYANIDE	0.21	µg/L	3	10	LIQUID	06-Nov-18
WG460171	WG460093LRB	CYANIDE	0.43	µg/L	3	10	LIQUID	07-Nov-18
WG460253	WG460187LRB	CYANIDE	-0.34	µg/L	3	10	LIQUID	08-Nov-18
WG460332	WG460280LRB	CYANIDE	-1.50	µg/L	3	10	LIQUID	10-Nov-18
WG460819	WG460345LRB	CYANIDE	0.21	µg/L	3	10	LIQUID	17-Nov-18
WG460821	WG460515LRB	CYANIDE	1.30	µg/L	3	10	LIQUID	17-Nov-18
WG460822	WG460728LRB	CYANIDE	-0.15	µg/L	3	10	LIQUID	17-Nov-18
WG461036	WG460762LRB	CYANIDE	0.25	µg/L	3	10	LIQUID	21-Nov-18
WG461099	WG461040LRB	CYANIDE	-0.56	µg/L	3	10	LIQUID	22-Nov-18
WG461281	WG461133LRB	CYANIDE	-0.17	µg/L	3	10	LIQUID	27-Nov-18
WG461287	WG461134LRB	CYANIDE	1.70	µg/L	3	10	LIQUID	27-Nov-18
WG461305	WG461216LRB	CYANIDE	-1.10	µg/L	3	10	LIQUID	27-Nov-18
WG461558	WG461330LRB	CYANIDE	-1.50	µg/L	3	10	LIQUID	29-Nov-18
WG461561	WG461501LRB	CYANIDE	0.08	µg/L	3	10	LIQUID	29-Nov-18
WG461776	WG461694LRB	CYANIDE	1.00	µg/L	3	10	LIQUID	04-Dec-18
WG461784	WG461695LRB	CYANIDE	0.00	µg/L	3	10	LIQUID	04-Dec-18

WG461849	WG461759LRB	CYANIDE	0.40	µg/L	3	10	LIQUID	05-Dec-18
WG461849	WG461759LRB	CYANIDE	-0.65	µg/L	3	10	LIQUID	04-Dec-18
WG462011	WG461890LRB	CYANIDE	0.70	µg/L	3	10	LIQUID	06-Dec-18
WG462320	WG462158LRB	CYANIDE	1.50	µg/L	3	10	LIQUID	11-Dec-18
WG462330	WG462198LRB	CYANIDE	0.83	µg/L	3	10	LIQUID	11-Dec-18
WG462335	WG462101LRB	CYANIDE	0.86	µg/L	3	10	LIQUID	11-Dec-18
WG462507	WG462408LRB	CYANIDE	-0.10	µg/L	3	10	LIQUID	12-Dec-18
WG462515	WG462410LRB	CYANIDE	-0.77	µg/L	3	10	LIQUID	13-Dec-18
WG462678	WG462556LRB	CYANIDE	0.05	µg/L	3	10	LIQUID	14-Dec-18
WG462957	WG462585LRB	CYANIDE	0.17	µg/L	3	10	LIQUID	18-Dec-18
WG462975	WG462634LRB	CYANIDE	-0.79	µg/L	3	10	LIQUID	18-Dec-18
WG463163	WG463011LRB	CYANIDE	-0.78	µg/L	3	10	LIQUID	20-Dec-18
WG463196	WG462750LRB	CYANIDE	0.42	µg/L	3	10	LIQUID	20-Dec-18
WG463231	WG463013LRB	CYANIDE	0.52	µg/L	3	10	LIQUID	20-Dec-18
WG463233	WG463108LRB	CYANIDE	0.25	µg/L	3	10	LIQUID	20-Dec-18
WG463316	WG463156LRB	CYANIDE	0.23	µg/L	3	10	LIQUID	21-Dec-18
WG463320	WG463249LRB	CYANIDE	0.09	µg/L	3	10	LIQUID	21-Dec-18
WG463322	WG463111LRB	CYANIDE	-0.75	µg/L	3	10	LIQUID	21-Dec-18
WG463326	WG463299LRB	CYANIDE	-0.06	µg/L	3	10	LIQUID	22-Dec-18
WG463328	WG463300LRB	CYANIDE	0.27	µg/L	3	10	LIQUID	22-Dec-18
WG463510	WG463358LRB	CYANIDE	-0.84	µg/L	3	10	LIQUID	27-Dec-18
WG463638	WG463604LRB	CYANIDE	0.17	µg/L	3	10	LIQUID	28-Dec-18
WG463791	WG463669LRB	CYANIDE	-0.55	µg/L	3	10	LIQUID	02-Jan-19
WG463793	WG463713LRB	CYANIDE	-0.63	µg/L	3	10	LIQUID	02-Jan-19
WG463849	WG463728LRB	CYANIDE	-2.40	µg/L	3	10	LIQUID	03-Jan-19
WG463861	WG463732LRB	CYANIDE	-1.10	µg/L	3	10	LIQUID	03-Jan-19
WG463881	WG463818LRB	CYANIDE	-2.30	µg/L	3	10	LIQUID	03-Jan-19
WG464012	WG463971LRB	CYANIDE	0.14	µg/L	3	10	LIQUID	07-Jan-19
WG464106	WG463977LRB	CYANIDE	0.62	µg/L	3	10	LIQUID	08-Jan-19
WG464108	WG464028LRB	CYANIDE	0.01	µg/L	3	10	LIQUID	08-Jan-19
WG464187	WG464110LRB	CYANIDE	-0.71	µg/L	3	10	LIQUID	09-Jan-19
WG464191	WG464112LRB	CYANIDE	-1.20	µg/L	3	10	LIQUID	09-Jan-19
WG464337	WG464234LRB	CYANIDE	-0.16	µg/L	3	10	LIQUID	11-Jan-19
WG464339	WG464258LRB	CYANIDE	-0.48	µg/L	3	10	LIQUID	11-Jan-19
WG464343	WG464304LRB	CYANIDE	-0.12	µg/L	3	10	LIQUID	11-Jan-19
WG464539	WG464359LRB	CYANIDE	0.33	µg/L	3	10	LIQUID	16-Jan-19
WG464570	WG464418LRB	CYANIDE	0.09	µg/L	3	10	LIQUID	16-Jan-19
WG464571	WG464546LRB	CYANIDE	-0.48	µg/L	3	10	LIQUID	16-Jan-19
WG464654	WG464583LRB	CYANIDE	0.51	µg/L	3	10	LIQUID	17-Jan-19
WG464707	WG464496LRB	CYANIDE	-0.41	µg/L	3	10	LIQUID	18-Jan-19
WG464722	WG464644LRB	CYANIDE	-0.78	µg/L	3	10	LIQUID	18-Jan-19
WG464982	WG464922LRB	CYANIDE	0.51	µg/L	3	10	LIQUID	25-Jan-19
WG465007	WG464824LRB	CYANIDE	-0.59	µg/L	3	10	LIQUID	23-Jan-19
WG465008	WG464956LRB	CYANIDE	-0.19	µg/L	3	10	LIQUID	23-Jan-19
WG465102	WG465021LRB	CYANIDE	-0.23	µg/L	3	10	LIQUID	24-Jan-19
WG465104	WG465022LRB	CYANIDE	0.48	µg/L	3	10	LIQUID	24-Jan-19
WG465189	WG465121LRB	CYANIDE	0.60	µg/L	3	10	LIQUID	26-Jan-19
WG465288	WG465191LRB	CYANIDE	0.72	µg/L	3	10	LIQUID	28-Jan-19
WG465361	WG465212LRB	CYANIDE	-1.10	µg/L	3	10	LIQUID	29-Jan-19
WG465570	WG465294LRB	CYANIDE	0.14	µg/L	3	10	LIQUID	31-Jan-19
WG465574	WG465418LRB	CYANIDE	0.50	µg/L	3	10	LIQUID	01-Feb-19
WG465632	WG465509LRB	CYANIDE	-0.96	µg/L	3	10	LIQUID	01-Feb-19
WG465715	WG465652LRB	CYANIDE	-0.16	µg/L	3	10	LIQUID	04-Feb-19

WG465904	WG465811LRB	CYANIDE	-0.24	µg/L	3	10	LIQUID	06-Feb-19
WG465906	WG465812LRB	CYANIDE	-0.44	µg/L	3	10	LIQUID	06-Feb-19
WG465960	WG465914LRB	CYANIDE	-0.42	µg/L	3	10	LIQUID	07-Feb-19