

Appendix A

Data

Used in the Chollas Creek Metals Total Maximum Daily Load

California Regional Water Quality Control Board, San Diego Region

March 9, 2007

Appendix A: Chollas Creek Metals (Cd) Data

Station ID	Sample Date	Total Hardness as CaCO ₃ (mg/L)	Conc. actual (ug/L)		Reporting Limit (ug/L)	CMC Freshwater CF	CCC Freshwater CF	EMC (ug/L)	Reporting Limit (ug/L)	Reference	
				conc. or 1/2 RL							
			Dissolved Cadmium (ug/L)			Acute Dissolved Cadmium	Chronic Dissolved Cadmium	Total Cadmium			
11-87	2/12/2000	-	<	0.2	0.1	0.20	#VALUE!	#VALUE!	1.3	0.20	v
11-87	2/23/2000	-	=	0.3	0.3	0.20	#VALUE!	#VALUE!	0.7	0.20	v
11-87	3/5/2000	-	<	0.2	0.1	0.20	#VALUE!	#VALUE!	<2 U	0.20	v
11-87	4/17/2000	-	=	0.3	0.3	0.20	#VALUE!	#VALUE!	1	0.20	v
Allways Recycling	4/12/1999	NA					#VALUE!	#VALUE!	9		s
north fork	3/15/1999	90.8	<	0.30	1.00	2.00	0.948	0.913038713	NA	-	o
north fork	3/25/1999	68	<	2.00	1.00	2.00	0.960	0.925136237	NA	-	o
north fork	4/6/1999	110	<	2.00	1.00	2.00	0.940	0.905013302	NA	-	o
SD8(1)	2/17/1994	120	=	1.40	1.40	0.20	0.936	0.90137292	1.5	0.2	k
SD8(1)	3/24/1994	71	=	1.63	1.63	0.20	0.958	0.923329999	1.7	0.2	k
SD8(1)	4/24/1994	110	=	1.13	1.13	0.20	0.940	0.905013302	1.2	0.2	k
SD8(1)	11/10/1994	150	=	0.46	0.46	0.20	0.927	0.892037041	0.5	0.2	a
SD8(1)	1/11/1995	58	=	0.77	0.77	0.20	0.967	0.931791185	0.8	0.2	a
SD8(1)	2/14/1995	100	=	1.60	1.60	0.20	0.944	0.90900089	1.7	0.2	a
SD8(1)	4/16/1995	120	=	2.34	2.34	0.20	0.936	0.90137292	2.5	0.2	a
SD8(1)	11/1/1995	91	=	0.57	0.57	0.25	0.948	0.91294666	0.6	0.25	b
SD8(1)	1/22/1996	74.5	<	0.25	0.125	0.25	0.956	0.921316786	NA	-	b
SD8(1)	1/31/1996	52.2	<	0.25	0.125	0.25	0.971	0.936199259	NA	-	b
SD8(1)	3/5/1996	78.6	=	0.44	0.44	0.25	0.954	0.919075417	NA	-	b
SD8(1)	12/9/1996	57.4	=	0.5	0.5	0.50	0.967	0.932226246	0.6	0.5	i
SD8(1)	1/16/1997	61.5	=	1.2	1.2	0.50	0.964	0.929339723	0.7	0.5	i
SD8(1)	11/10/1997	116	=	0.28	0.28	0.25	0.938	0.902791294	0.3	0.25	c
SD8(1)	12/6/1997	39.0	<	3.93	2.00	4.00	0.983	0.948395908	<4.0	4	c
SD8(1)	3/14/1998	96.4	<	3.78	2.00	4.00	0.946	0.910534838	<4.0	4	c
SD8(1)	11/8/1998	77	=	1.91	1.91	0.25	0.955	0.919935869	2	0.25	d
SD8(1)	1/25/1999	42.5	<	0.24	0.13	0.25	0.980	0.944800248	<0.25	0.25	d
SD8(1)	3/15/1999	90.8	<	0.24	0.13	0.25	0.948	0.913038713	<0.25	0.25	d
SD8(1)	3/15/1999	85	<	0.24	0.13	0.25	0.951	0.915800357	<0.25	0.25	d
SD8(1)	2/12/2000	40.9	<	0.25	0.13	0.25	0.981	0.94640574	<0.25	0.25	e
SD8(1)	2/20/2000	35.1	<	0.25	0.00		0.988	0.952803981	2		h
SD8(1)	3/5/2000	45.5	<	0.25	0.13	0.25	0.977	0.941946552	<0.25	0.25	e
SD8(1)	10/27/2000	85	<	1	0.13	0.25	0.951	0.915800357	<1	0.25	f
SD8(1)	1/8/2001	78	<	1	0.13	0.25	0.954	0.919396016	<1	0.25	f
SD8(1)	2/13/2001	59	<	1	0.13	0.25	0.966	0.931075988	<1	0.25	f
SD8(1)	11/29/2001	68	<	1	0.50	1.00	0.960	0.925136237	1	1	j
SD8(1)	2/17/2002	111	<	1	0.50	1.00	0.940	0.904634675	1	1	j
SD8(1)	3/8/2002	148	<	1	0.50	1.00	0.928	0.892598633	1	1	j
SD8(1)	11/8/2002	69.1	<	1	0.50		0.959	0.924464861	<1		w
SD8(1)	2/11/2003	78	<	1	0.50		0.954	0.919396016	<1		w
SD8(1)	2/25/2003	44	<	1	0.50		0.978	0.943349074	<1		w
SD8(2)	2/12/2000	58	<	2	1.00	2.00	0.967	0.931791185	<2	2	h
SD8(2)	2/21/2000	47	<	2	1.00	2.00	0.976	0.940589525	<2	2	h
SD8(3)	2/12/2000	54	<	2	1.00	2.00	0.970	0.934780885	<2	2	h
SD8(3)	2/21/2000	36	<	2	1.00	2.00	0.987	0.951744735	<2	2	h
SD8(4)	2/12/2000	190	<	0.2	0.10	0.20	0.917	0.882147007	1.3	0.2	h ¹
SD8(4)	2/23/2000	232	=	0.3	0.30	0.20	0.909	0.873791402	0.7	0.2	h ¹
SD8(5)	2/12/2000	100	<	2	1.00	2.00	0.944	0.90900089	<2	2	h
SD8(5)	2/21/2000	63	<	2	1.00	2.00	0.963	0.928331529	<2	2	h
SD8(6)	2/12/2000	120	<	2	1.00	2.00	0.936	0.90137292	<2	2	h
SD8(6)	2/21/2000	100	<	2	1.00	2.00	0.944	0.90900089	<2	2	h
unknown	6/4/1991	484	<	1.0	0.50		0.878	0.843025932	<1		l
unknown	3/12/1992	472	<	1.0	0.50		0.879	0.844076313	<1		m

Appendix A: Chollas Creek Metals (Cd) Data

Station ID	Sample Date	Total Hardness as CaCO ₃ (mg/L)	Conc. actual (ug/L) or 1/2 RL					Reporting Limit (ug/L)	CMC Freshwater CF	CCC Freshwater CF	EMC (ug/L)	Reporting Limit (ug/L)	Reference
			Dissolved Cadmium (ug/L)			Acute Dissolved Cadmium							
unknown	3/19/1992	1050	<	1.0	0.50			0.846	0.810624052	<1			n
unknown	3/19/1992	1040	<	1.0	0.50			0.846	0.811024418	<1			n
unknown	3/19/1992	1050	<	1.0	0.50			0.846	0.810624052	<1			n
Mean =		158.35		1.11	0.69								
Median =		81.80		1.00	0.50								

¹ Reference h cites N/A for Total Hardness.

Acronyms:

CF- conversion factor

CMC - Criteria Maximum Concentration

CCC - Criteria Continuous Concentration

RL = Reporting Limit

WQO- water quality objective

EMC- event mean concentration

NA- not analyzed

unverified

dissolved [] calculated from total []

Reporting limit not known, concentration is 1/2 reported estimate

Appendix A: Chollas Creek Metals (Cu) Data

Station ID	Sample Date	Total Hardness as CaCO ₃ (mg/L)	actual				CMC	CCC	EMC (ug/L)	Reporting Limit (ug/L)	Reference
			Conc. (ug/L)	conc. or 1/2 RL	Reporting Limit (ug/L)	Freshwater CF	Freshwater CF				
						Dissolved Copper	Acute Dissolved Copper	Chronic Dissolved Copper			
11-87	2/12/2000	-	=	5.3	5.3	1	0.960	0.960	33	1	v
11-87	2/23/2000	-	=	9.6	9.6	1	0.960	0.960	19	1	v
11-87	3/5/2000	-	=	5.1	5.1	1	0.960	0.960	12	1	v
11-87	4/17/2000	-	=	11	11	1	0.960	0.960	13	1	v
Able Auto Wrecking	3/15/1999	NA					0.960	0.960	81		r
Allways Recycling	4/12/1999	NA					0.960	0.960	72		s
CREEK	2/12/2000	-	=	51.2	51.2	-	0.96	0.960	-	-	u
CREEK	3/5/2000	-	=	63	63	-	0.96	0.960	-	-	u
DPR(1)	1/8/2001	210	=	13	13	1	0.960	0.960	32	2	g
DPR(1)	2/13/2001	48	=	8	8	1	0.960	0.960	17	2	g
DPR(1)	11/12/2001	370	=	6	6		0.96	0.960	170		g
DPR(2)	2/12/2000	NA	=	5.3	5.3		0.96	0.960	33		g
DPR(2)	2/21/2000	NA	=	9.6	9.6		0.960	0.960	19		g
DPR(2)	1/8/2001	150	=	13	13	1	0.960	0.960	56	2	g
DPR(2)	2/13/2001	110	=	5	5	1	0.96	0.960	41	2	g
DPR(2)	11/12/2001	100	=	11	11		0.96	0.960	32		g
DPR(3)	1/8/2001	73	=	17	17	1	0.960	0.960	36	2	g
DPR(3)	2/13/2001	35	=	34	34	1	0.960	0.960	19	2	g
DPR(3)	11/12/2001	73	=	19	19		0.96	0.960	37		g
DPR(4)	1/8/2001	160	=	8	8	1	0.96	0.960	70	2	g
DPR(4)	2/13/2001	69	=	5	5	1	0.960	0.960	38	2	g
DPR(4)	11/12/2001	72	=	10	10		0.960	0.960	42		g
Mini Trucks & Cars	1/25/1999	NA	=	172.8	172.8		0.96	0.960	180		q
NF-1	9/1/2000	230		ND	na		0.96	0.960	ND	2	t
NF-2	9/1/2000	220	=	4.8	4.8		0.960	0.960	5	2	t
NF-3	9/1/2000	280	=	3.84	3.84		0.960	0.960	4	2	t
NF-4	9/1/2000	3200	=	28.8	28.8		0.96	0.960	30	2	t
north fork	3/15/1999	90.8	=	15.0	15.0	10	0.96	0.960	NA	-	o
north fork	3/25/1999	68	=	30.0	30.0	10	0.960	0.960	NA	-	o
north fork	4/6/1999	110	=	10.0	10.0	10	0.960	0.960	NA	-	o
SD8(1)	2/17/1994	120	=	32.6	32.6	5	0.96	0.960	34	5	k
SD8(1)	3/24/1994	71	=	27.8	27.8	5	0.96	0.960	29	5	k
SD8(1)	4/24/1994	110	=	42.2	42.2	5	0.960	0.960	44	5	k
SD8(1)	11/10/1994	150	=	34.6	34.6	5	0.960	0.960	36	5	a
SD8(1)	1/11/1995	58	=	16.3	16.3	5	0.96	0.960	17	5	a
SD8(1)	2/14/1995	100	=	38.4	38.4	5	0.96	0.960	40	5	a
SD8(1)	4/16/1995	120	=	81.6	81.6	5	0.960	0.960	85	5	a
SD8(1)	11/1/1995	91	=	44.2	44.2	5	0.960	0.960	46	5	b
SD8(1)	1/22/1996	74.5	=	12	12	5	0.96	0.960	NA	-	b
SD8(1)	1/31/1996	52.2	=	8	8	5	0.96	0.960	NA	-	b
SD8(1)	3/5/1996	78.6	=	34	34	5	0.960	0.960	NA	-	b
SD8(1)	12/9/1996	57.4	=	10	10	10	0.960	0.960	20	10	i
SD8(1)	1/16/1997	61.5	=	20	20	10	0.96	0.960	10	10	i
SD8(1)	11/10/1997	116	=	16.3	16.3	5.0	0.96	0.960	17	5	c
SD8(1)	12/6/1997	39.0	=	26.9	26.9	6.0	0.960	0.960	28	6	c
SD8(1)	3/14/1998	96.4	=	26.9	26.9	6.0	0.960	0.960	28	6	c
SD8(1)	11/8/1998	77.0	=	5.8	5.8	5	0.96	0.960	6	5	d
SD8(1)	1/25/1999	42.5	<	4.8	2.5	5	0.96	0.960	5	5	d
SD8(1)	3/15/1999	90.8	=	14.4	14.4	5	0.960	0.960	15	5	d
SD8(1)	3/15/1999	85.0	=	14.4	14.4	5	0.960	0.960	15	5	d
SD8(1)	2/12/2000	40.9	<	5	2.5	5	0.96	0.960	29	5	e, g
SD8(1)	2/20/2000	35.1	<	5	2.5	5	0.96	0.960	16	5	
SD8(1)	3/5/2000	45.5	<	5	2.5	5	0.960	0.960	14	5	e

Appendix A: Chollas Creek Metals (Cu) Data

Station ID	Sample Date	Total Hardness as CaCO ₃ (mg/L)	actual conc. or 1/2 RL			Reporting Limit (ug/L)	CMC	CCC	EMC (ug/L)	Reporting Limit (ug/L)	Reference
			Conc. (ug/L)	Freshwater CF	Freshwater						
					Freshwater CF						
			Dissolved Copper			Acute Dissolved Copper	Chronic Dissolved Copper	Total Copper			
SD8(1)	10/27/2000	85	=	17	17	5	0.960	0.960	27	5	f
SD8(1)	1/8/2001	78	=	13	13	5	0.96	0.960	49	5	f
SD8(1)	1/8/2001	170	=	11	11	5	0.96	0.960	65	2	g
SD8(1)	2/13/2001	45	=	4	4	5	0.960	0.960	15	2	g
SD8(1)	2/13/2001	59	<	5	2.5	5	0.960	0.960	16	5	f
SD8(1)	11/12/2001	200	=	5	5	5	0.96	0.960	97		g
SD8(1)	11/29/2001	68	=	9	9	5	0.96	0.960	27	5	j
SD8(1)	2/17/2002	111	=	24	24	5	0.960	0.960	53	5	j
SD8(1)	3/8/2002	148	=	18	18	5	0.960	0.960	56	5	j
SD8(1)	11/8/2002	69.1	=	22	22		0.96	0.960	28		w
SD8(1)	2/11/2003	78	=	52	52		0.96	0.960	33		w
SD8(1)	2/25/2003	44	=	8.8	8.8		0.960	0.960	16		w
SD8(1)	2/20/00 ¹	35.1	<	5	2.5	5	0.960	0.960	16	5	e
SD8(2)	2/12/2000	58	=	37	37	5	0.96	0.960	68	10	g
SD8(2)	2/21/2000	47	=	11	11	5	0.96	0.960	23	10	g
SD8(2)	1/8/2001	68	=	12	12	5	0.960	0.960	52	2	g
SD8(2)	2/13/2001	37	=	5	5	5	0.960	0.960	16	2	g
SD8(2)	11/12/2001	58	=	18	18		0.96	0.960	49		g
SD8(3)	2/12/2000	54	<	10	2.5	5	0.96	0.960	68	10	g
SD8(3)	2/21/2000	36	<	10	2.5	5	0.960	0.960	19	10	g
SD8(3)	1/8/2001	87	=	19	19	5	0.960	0.960	65	2	g
SD8(3)	2/13/2001	40	=	5	5	5	0.96	0.960	15	2	g
SD8(3)	11/12/2001	300	=	5	5		0.96	0.960	45		g
SD8(4)	2/12/2000	190	=	5.3	5.3	5	0.960	0.960	33	1	h ²
SD8(4)	2/23/2000	232	=	9.6	9.6	5	0.960	0.960	19	1	h ²
SD8(5)	2/12/2000	100	<	10	2.5	5	0.96	0.960	43	10	g
SD8(5)	2/21/2000	63	<	10	2.5	5	0.96	0.960	27	10	g
SD8(5)	1/8/2001	200	=	13	13	5	0.960	0.960	37	2	g
SD8(5)	2/13/2001	52	=	5	5	5	0.960	0.960	33	2	g
SD8(5)	11/12/2001	310	=	4	4		0.96	0.960	180		g
SD8(6)	2/12/2000	120	<	10	2.5	5	0.96	0.960	23	10	g
SD8(6)	2/21/2000	100	<	10	2.5	5	0.960	0.960	10	10	g
SD8(6)	1/8/2001	640	=	13	13	5	0.960	0.960	32	2	g
SD8(6)	2/13/2001	91	=	3	3	5	0.96	0.960	10	2	g
SD8(6)	11/12/2001	280	=	6	6		0.96	0.960	49		g
SF-1	9/1/2000	520					0.960	0.960	5	2	t
Trolley Auto Parts	5/5/1998	NA					0.960	0.960	500	200	p
unknown	6/4/1991	484	=	3	3		0.96	0.960	5		l
unknown	3/12/1992	472	=	7	7		0.96	0.960	7		m
unknown	3/19/1992	1050	=	7	7		0.960	0.960	36		n
unknown	3/19/1992	1040	=	7	7		0.960	0.960	6		n
unknown	3/19/1992	1050	=	8	8		0.96	0.960	7		n

Mean = 198.20 17.30 16.64
Median = 90.80 10.00 10.00

¹ Reference g cites date as 2/21/00.

² Reference h cites N/A for Total Hardness.

Acronyms:

CF- conversion factor

WQO- water quality objective

CMC-

CCC-

EMC- event mean concentration

NA- not analyzed

unverified

data may be duplicative

dissolved [] calculated from total []

Appendix A: Chollas Creek Metals (Pb) Data

Station ID	Sampling Date	Total Hardness as CaCO ₃ (mg/L)	actual conc. or 1/2 RL			Reporting Limit (ug/L)	CMC Freshwater CF	CCC Freshwater CF	EMC (ug/L)	Reporting Limit (ug/L)	Reference
			Conc. (ug/L)	Dissolved Lead (ug/L)							
				Acute Dissolved Lead	Chronic Dissolved Lead						
Able Auto Wrecking	3/15/1999	NA		NA			#VALUE!	#VALUE!	30		r
Allways Recycling	4/12/1999	NA		NA			#VALUE!	#VALUE!	42		s
DPR(1)	1/8/2001	210	=	1	1.0	1.0	0.683	0.683	27	2	g
DPR(1)	2/13/2001	48	=	27	27.0	1.0	0.898	0.898	23	2	g
DPR(1)	11/12/2001	370	<	1	0.5		0.600	0.600	270		g
DPR(2)	2/12/2000	NS	=	3.6	3.6		#VALUE!	#VALUE!	83		g, h
DPR(2)	2/21/2000	NS	=	10.5	10.5		#VALUE!	#VALUE!	25.9		
DPR(2)	1/8/2001	150	=	1	1.0	1.0	0.732	0.732	59	2	g
DPR(2)	2/13/2001	110	=	1	1.0	1.0	0.777	0.777	61	2	g
DPR(2)	11/12/2001	100	<	1	0.5		0.791	0.791	19		g
DPR(3)	1/8/2001	73	=	2	2.0	1.0	0.837	0.837	21	2	g
DPR(3)	2/13/2001	35	=	46	46.0	1.0	0.944	0.944	18	2	g
DPR(3)	11/12/2001	73	=	2	2.0		0.837	0.837	12		g
DPR(4)	1/8/2001	160	=	1	1.0	1.0	0.723	0.723	68	2	g
DPR(4)	2/13/2001	69	=	4	4.0	1.0	0.845	0.845	53	2	g
DPR(4)	11/12/2001	72	=	2	2.0		0.839	0.839	29		g
Mini Trucks & Cars	1/25/1999	NA					#VALUE!	#VALUE!	160		q
NF-1	9/1/2000	230	<	2	1.0	2.0	0.670	0.670	ND	2.0	t
NF-2	9/1/2000	220	=	4.1	4.1	2.0	0.676	0.676	6	2.0	t
NF-3	9/1/2000	280	=	1.3	1.3	2.0	0.641	0.641	2	2.0	t
NF-4	9/1/2000	3200	<	2	1.0	2.0	0.286	0.286	ND	2.0	t
north fork	3/15/1999	90.8	=	82	82.0	10.0	0.805	0.805	NA	-	o
north fork	3/25/1999	68	=	30	30.0	10.0	0.847	0.847	NA	-	o
north fork	4/6/1999	110	<	10	5.0	10.0	0.777	0.777	NA	-	o
SD8(1)	2/17/1994	120	=	84	84.0		0.764	0.764	110	1	k
SD8(1)	3/24/1994	71	=	118	118.0		0.841	0.841	140	1	k
SD8(1)	4/24/1994	110	=	54	54.0		0.777	0.777	70	1	k
SD8(1)	11/10/1994	150	=	26	26.0		0.732	0.732	35	1	a
SD8(1)	1/11/1995	58	=	38	38.0		0.870	0.870	44	1	a
SD8(1)	2/14/1995	100	=	87	87.0		0.791	0.791	110	1	a
SD8(1)	4/16/1995	120	=	107	107.0		0.764	0.764	140	1	a
SD8(1)	11/1/1995	91	=	18	18.0		0.805	0.805	22.9	1	b
SD8(1)	1/22/1996	74.5	<	2	0.5	1.0	0.834	0.834	NA	-	b
SD8(1)	1/31/1996	52.2	<	2	0.5	1.0	0.886	0.886	NA	-	b
SD8(1)	3/5/1996	78.6	=	18	18.0	1.0	0.826	0.826	NA	-	b
SD8(1)	12/9/1996	57.4	=	15	15.0	2.0	0.872	0.872	16	2	i
SD8(1)	1/16/1997	61.5	=	7	7.0	2.0	0.862	0.862	58	2	i
SD8(1)	11/10/1997	116	=	2	2.0		0.769	0.769	3	1	c
SD8(1)	12/6/1997	39.0	=	39	39.0		0.928	0.928	<42	42	c
SD8(1)	3/14/1998	96.4	=	76	76.0		0.796	0.796	95	42	c
SD8(1)	11/8/1998	77	<	1	0.5	-	0.829	0.829	<1	1	d
SD8(1)	1/25/1999	42.5	=	6	6.0	-	0.916	0.916	7	1	d
SD8(1)	3/15/1999	90.8	=	66	66.0	-	0.805	0.805	82	1	d
SD8(1)	3/15/1999	85	=	67	67.0	-	0.815	0.815	82	1	d
SD8(1)	2/12/2000	40.9	<	1	0.5	1.0	0.921	0.921	15	1	e
SD8(1)	2/21/2000	35.1	<	1	0.5	1.0	0.944	0.944	<1	1	e, g, h
SD8(1)	3/5/2000	45.5	<	1	0.5	1.0	0.906	0.906	<1	1	e
SD8(1)	10/27/2000	85	=	3	3.0	1.0	0.815	0.815	22	1	f
SD8(1)	1/8/2001	78	=	2	2.0	1.0	0.827	0.827	55	1	f
SD8(1)	1/8/2001	170	=	3	3.0	1.0	0.714	0.714	83	2	g
SD8(1)	2/13/2001	45	<	1	0.5	1.0	0.907	0.907	22	2	g
SD8(1)	2/13/2001	59	=	14	14.0	1.0	0.868	0.868	27	1	f
SD8(1)	11/12/2001	200	<	1	0.5		0.690	0.690	94		g

Appendix A: Chollas Creek Metals (Pb) Data

Station ID	Sampling Date	Total Hardness as CaCO ₃ (mg/L)	Conc. (ug/L)	actual conc. or 1/2 RL	Reporting Limit (ug/L)	CMC Freshwater CF	CCC Freshwater CF	EMC (ug/L)	Reporting Limit (ug/L)	Reference
			Dissolved Lead (ug/L)			Acute Dissolved Lead	Chronic Dissolved Lead	Total Lead		
SD8(1)	11/29/2001	68	< 2	1.0	2.0	0.847	0.847	28	2	j
SD8(1)	2/17/2002	111	< 2	1.0	2.0	0.776	0.776	32	2	j
SD8(1)	3/8/2002	148	= 2	2.0	2.0	0.734	0.734	61	2	j
SD8(1)	11/8/2002	69.1	= 6	6.0		0.845	0.845	17		w
SD8(1)	2/11/2003	78	< 2	1.0		0.827	0.827	29		w
SD8(1)	2/25/2003	44	< 2	1.0		0.911	0.911	23		w
SD8(2)	2/12/2000	58	< 10	5.0	10.0	0.870	0.870	34	10	g, h
SD8(2)	2/21/2000	47	< 10	5.0	10.0	0.901	0.901	23	10	g, h
SD8(2)	1/8/2001	68	= 1	1.0	1.0	0.847	0.847	91	2	g
SD8(2)	2/13/2001	37	= 1	1.0	1.0	0.936	0.936	29	2	g
SD8(2)	11/12/2001	58	< 1	0.5		0.870	0.870	39		g
SD8(3)	2/12/2000	54	< 10	5.0	10.0	0.881	0.881	52	10	g, h
SD8(3)	2/21/2000	36	< 10	5.0	10.0	0.940	0.940	19	10	g, h
SD8(3)	1/8/2001	87	= 1	1.0	1.0	0.811	0.811	90	2	g
SD8(3)	2/13/2001	40	= 2	2.0	1.0	0.925	0.925	21	2	g
SD8(3)	11/12/2001	300	= 3	3.0		0.631	0.631	52		g
SD8(4)	2/12/2000	NA	= 3.6	3.6	1.0	#VALUE!	#VALUE!	83	1	h ¹
SD8(4)	2/23/2000	NA	= 10.5	10.5	1.0	#VALUE!	#VALUE!	25.9J	1	h ¹
SD8(5)	2/12/2000	100	< 10	5.0	10.0	0.791	0.791	76	10	g, h
SD8(5)	2/21/2000	63	< 10	5.0	10.0	0.858	0.858	35	10	g, h
SD8(5)	1/8/2001	200	= 1	1.0	1.0	0.690	0.690	29	2	g
SD8(5)	2/13/2001	52	= 2	2.0	1.0	0.886	0.886	59	2	g
SD8(5)	11/12/2001	310	< 1	0.5		0.626	0.626	170		g
SD8(6)	2/12/2000	120	< 10	5.0	10.0	0.764	0.764	16	10	g, h
SD8(6)	2/21/2000	100	< 10	5.0	10.0	0.791	0.791	<10	10	g, h
SD8(6)	1/8/2001	640	= 1	1.0	1.0	0.521	0.521	19	2	g
SD8(6)	2/13/2001	91	< 1	0.5	1.0	0.805	0.805	9	2	g
SD8(6)	11/12/2001	280	< 1	0.5		0.641	0.641	36		g
SF-1	9/1/2000	520				0.551	0.551	ND	2.0	t
Trolley Auto Parts	5/5/1998	NA				#VALUE!	#VALUE!	500	200	p
unknown	6/4/1991	484	< 5	2.5		0.561	0.561	5		l
unknown	3/12/1992	472	< 5	2.5		0.565	0.565	7		m
unknown	3/19/1992	1050	= 29	29.0		0.448	0.448	5		n
unknown	3/19/1992	1040	= 16	16.0		0.450	0.450	5		n
unknown	3/19/1992	1040	= 11	11.0		0.450	0.450	5		n
11-87	4/17/2000	-	= 2.9	2.9	1.0	#VALUE!	#VALUE!	7.6	1	v
11-87	2/12/2000	-	= 3.6	3.6	1.0	#VALUE!	#VALUE!	83	1	v
11-87	3/5/2000	-	= 4.3	4.3	1.0	#VALUE!	#VALUE!	14	1	v
11-87	2/23/2000	-	= 11	11.0	1.0	#VALUE!	#VALUE!	26	1	v
Mean =			199.79	15.05	14.29					
Median =			88.90	3.60	3.00					

¹ Reference h cites N/A for Total Hardness.

Acronyms:

CF- conversion factor

WQO- water quality objective

CMC- criteria maximum concentration

CCC- criteria continuous criteria

EMC- event mean concentration

NA- not analyzed

	unverified
	dissolved [] calculated from total []
	data may be duplicative
	Reporting limit not known, concentration is 1/2 reported estimate

Appendix A: Chollas Creek Metals (Zn) Data

Station ID	Sampling Date	Total Hardness as CaCO ₃ (mg/L)		Conc. (ug/L)	actual conc. or 1/2 RL	Reporting Limit (ug/L)	CMC Freshwater CF	CCC Freshwater CF	EMC (ug/L)	Reporting Limit (ug/L)	Reference
				Dissolved Zinc (ug/L)			Acute Dissolved Zinc	Chronic Dissolved Zinc	Total Zinc		
11-87	2/12/2000	-	=	17	17	1			330	1	v
11-87	2/23/2000	-	=	42	42	1			81	1	v
11-87	3/5/2000	-	=	25	25	1			49	1	v
11-87	4/17/2000	-	=	31	31	1			47	1	v
Able Auto Wrecking	3/15/1999	NA							190		r
Allways Recycling	4/12/1999	NA							260		s
CREEK	2/12/2000	-	=	150.8	150.8						u
CREEK	3/5/2000	-	=	146	146						u
DPR(1)	1/8/2001	210	=	200	200	10	0.978	0.986	190	10	g
DPR(1)	2/13/2001	48	=	250	250	10	0.978	0.986	120	10	g
DPR(1)	11/12/2001	370	=	40	40		0.978	0.986	1400		g
DPR(2)	2/12/2000	NS	=	16.8	16.8		0.978	0.986	327		g
DPR(2)	2/21/2000	NS	=	42	42		0.978	0.986	81		g
DPR(2)	1/8/2001	150	=	180	180	10	0.978	0.986	360	10	g
DPR(2)	2/13/2001	110	=	66	66	10	0.978	0.986	280	10	g
DPR(2)	11/12/2001	100	=	55	55		0.978	0.986	180		g
DPR(3)	1/8/2001	73	=	220	220	10	0.978	0.986	230	10	g
DPR(3)	2/13/2001	35	=	370	370	10	0.978	0.986	110	10	g
DPR(3)	11/12/2001	73	=	100	100		0.978	0.986	200		g
DPR(4)	1/8/2001	160	=	230	230	10	0.978	0.986	660	10	g
DPR(4)	2/13/2001	69	=	46	46	10	0.978	0.986	280	10	g
DPR(4)	11/12/2001	72	=	110	110		0.978	0.986	340		g
Mini Trucks & Cars	1/25/1999	NA					0.978	0.986	690		q
NF-1	9/1/2000	230	<	10	5	10.0	0.978	0.986	ND	10	t
NF-2	9/1/2000	220	=	45	45	10.0	0.978	0.986	46	10	t
NF-3	9/1/2000	280	=	15	15	10.0	0.978	0.986	15	10	t
NF-4	9/1/2000	3200	=	20	20	10.0	0.978	0.986	20	10	t
north fork	3/15/1999	90.8	=	210	210	10.0	0.978	0.986	NA	-	o
north fork	3/25/1999	68	=	220	220	10.0	0.978	0.986	NA	-	o
north fork	4/6/1999	110	=	90	90	10.0	0.978	0.986	NA	-	o
SD8(1)	2/17/1994	120	=	254	254		0.978	0.986	260	5	k
SD8(1)	3/24/1994	71	=	235	235		0.978	0.986	240	5	k
SD8(1)	4/24/1994	110	=	313	313		0.978	0.986	320	5	k
SD8(1)	11/10/1994	150	=	176	176		0.978	0.986	180	5	a
SD8(1)	1/11/1995	58	=	147	147		0.978	0.986	150	5	a
SD8(1)	2/14/1995	100	=	352	352		0.978	0.986	360	5	a
SD8(1)	4/16/1995	120	=	548	548		0.978	0.986	560	5	a
SD8(1)	11/1/1995	91	=	181	181		0.978	0.986	185	25	b
SD8(1)	1/22/1996	74.5	=	25	25	25	0.978	0.986	NA	-	b
SD8(1)	1/31/1996	52.2	=	32	32	25	0.978	0.986	NA	-	b
SD8(1)	3/5/1996	78.6	=	141	141	25	0.978	0.986	NA	-	b
SD8(1)	12/9/1996	57.4	=	80	80	50	0.978	0.986	70	50	i
SD8(1)	1/16/1997	61.5	=	40	40	50	0.978	0.986	200	50	i
SD8(1)	11/10/1997	116	=	172	172		0.978	0.986	176	25	c
SD8(1)	12/6/1997	39.0	=	108	108		0.978	0.986	110	2	c
SD8(1)	3/14/1998	96.4	=	90	90		0.978	0.986	92	2	c
SD8(1)	11/8/1998	77	=	30	30	25.0	0.978	0.986	30	25	d
SD8(1)	1/25/1999	42.5	=	48	48	25.0	0.978	0.986	48	25	d
SD8(1)	3/15/1999	90.8	=	210	210	25.0	0.978	0.986	210	25	d
SD8(1)	3/15/1999	85	=	210	210	25.0	0.978	0.986	210	25	d
SD8(1)	2/12/2000	40.9	=	19	19	25.0	0.978	0.986	96	25	e, g, h
SD8(1)	2/20/2000	35.1	=	28	28	25.0	0.978	0.986	50	25	e
SD8(1)	3/5/2000	45.5	=	8	8	25.0	0.978	0.986	80	25	e

Appendix A: Chollas Creek Metals (Zn) Data

Station ID	Sampling Date	Total Hardness as CaCO ₃ (mg/L)		Conc. (ug/L)	actual conc. or 1/2 RL	Reporting Limit (ug/L)	CMC Freshwater CF	CCC Freshwater CF	EMC (ug/L)	Reporting Limit (ug/L)	Reference
				Dissolved Zinc (ug/L)			Acute Dissolved Zinc	Chronic Dissolved Zinc	Total Zinc		
SD8(1)	10/27/2000	85	=	90	90	25	0.978	0.986	150	25	f
SD8(1)	1/8/2001	78	=	110	110	25	0.978	0.986	29	25	f
SD8(1)	1/8/2001	170	=	87	87	10	0.978	0.986	480	10	g
SD8(1)	2/13/2001	45	=	32	32	10	0.978	0.986	100	10	g
SD8(1)	2/13/2001	59	=	30	30	25	0.978	0.986	120	25	f
SD8(1)	11/12/2001	200	=	62	62		0.978	0.986	740		g
SD8(1)	11/29/2001	68	=	53	53	20	0.978	0.986	162	20	j
SD8(1)	2/17/2002	111	=	118	118	20	0.978	0.986	314	20	j
SD8(1)	3/8/2002	148	=	79	79	20	0.978	0.986	430	20	j
SD8(1)	11/8/2002	69.1	=	152	152		0.978	0.986	118		w
SD8(1)	2/11/2003	78	=	139	139		0.978	0.986	230		w
SD8(1)	2/25/2003	44	=	18	18		0.978	0.986	154		w
SD8(2)	2/12/2000	58	=	45	45	10	0.978	0.986	160	10	g, h
SD8(2)	2/21/2000	47	=	67	67	10	0.978	0.986	180	10	g
SD8(2)	1/8/2001	68	=	160	160	10	0.978	0.986	420	10	g
SD8(2)	2/13/2001	37	=	36	36	10	0.978	0.986	100	10	g
SD8(2)	11/12/2001	58	=	130	130		0.978	0.986	370		g
SD8(3)	2/12/2000	54	=	20	20	10	0.978	0.986	300	10	g, h
SD8(3)	2/21/2000	36	=	57	57	10	0.978	0.986	160	10	g
SD8(3)	1/8/2001	87	=	130	130	10	0.978	0.986	480	10	g
SD8(3)	2/13/2001	40	=	36	36	10	0.978	0.986	110	10	g
SD8(3)	11/12/2001	300	=	47	47		0.978	0.986	300		g
SD8(4)	2/12/2000	190	=	16.8	16.8	1	0.978	0.986	327	1	h ²
SD8(4)	2/23/2000	232	=	42	42	1	0.978	0.986	81	1	h ²
SD8(5)	2/12/2000	100	=	45	45	10	0.978	0.986	370	10	g, h
SD8(5)	2/21/2000	63	=	10	10	10	0.978	0.986	10	10	g
SD8(5)	1/8/2001	200	=	290	290	10	0.978	0.986	260	10	g
SD8(5)	2/13/2001	52	=	68	68	10	0.978	0.986	270	10	g
SD8(5)	11/12/2001	310	=	73	73		0.978	0.986	1900		g
SD8(6)	2/12/2000	120	=	20	20	10	0.978	0.986	100	10	g, h
SD8(6)	2/21/2000	100	=	30	30	10	0.978	0.986	54	10	g
SD8(6)	1/8/2001	640	=	170	170	10	0.978	0.986	160	10	g
SD8(6)	2/13/2001	91	=	33	33	10	0.978	0.986	55	10	g
SD8(6)	11/12/2001	280	=	76	76		0.978	0.986	290		g
SF-1	9/1/2000	520	=	12	12		0.978	0.986	12	10	t
Trolley Auto Parts	5/5/1998	NA					0.978	0.986	1000	50	p
unknown	6/4/1991	484	=	3	3		0.978	0.986	6		l
unknown	3/12/1992	472	=	188	188		0.978	0.986	224		m
unknown	3/19/1992	1050	=	11	11		0.978	0.986	59		n
unknown	3/19/1992	1040	=	11	11		0.978	0.986	29		n
unknown	3/19/1992	1050	=	12	12		0.978	0.986	21		n
Mean =		200.19		102.24	102.20						
Median =		90.80		66.50	66.50						

² Reference h cites N/A for Total Hardness.

Acronyms:

CF- conversion factor

WQO- water quality objective

CMC-

CCC-

EMC- event mean concentration

NA- not analyzed

	unverified
	dissolved [] calculated from total []
	data may be duplicative