

Water Quality Monitoring for San Joaquin River Seepage Management Projects

Water Quality Monitoring Report

Sample Collection: August, 2015



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US Bureau of Reclamation
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Approvals

Paul Kot
Environmental Monitoring Branch Chief

Date

Table of Contents

Introduction.....	4
Methods.....	4
Sample Collection and Documentation	4
Chemical Analysis	5
Quality Assurance.....	5
Water Quality Evaluation	5
Results.....	6
Organic Chemicals.....	6
Inorganic Constituents	7
Reference Citations.....	7

Tables

- Table 1 Sample Collection Summary
- Table 2 Historic SCP Water Quality Monitoring Sites, 2012-2015
- Table 3 Water Quality Exceedances – Inorganic Results

Appendices

- Appendix A Water Quality Standards for SCP Evaluation
- Appendix B Results of Organic Analyses
- Appendix C Results of Inorganic Analyses and Physical Measurements
- Appendix D Quality Assurance Summary Report

Introduction

The San Joaquin River Seepage Management Project – Seepage Control Program (SCP) is a multi-year water quality monitoring program that is intended to help determine how increased flows in the San Joaquin River (SJR) might affect the quality of ground water in adjacent lands and to help determine whether potential SJR seepage water could be released to irrigation canals without negatively impacting existing canal water quality. Water quality monitoring data will be used to establish the existing quality of: surface water within SJR Reach 3 and Reach 4; surface water within irrigation canals that are potential receiving bodies for SJR seepage; and ground water that may be affected by SJR seepage.

The SCP is conducted by the United States Bureau of Reclamation (Reclamation) Environmental Monitoring Branch (MP-157), under contract to the San Joaquin River Restoration Program (SJRRP).

Water quality results of the 2015 sampling event are presented here.

Methods

Sample Collection and Documentation

Under clear skies and still wind conditions, water quality samples were successfully retrieved from six surface water sites and nine monitoring wells on August 10th and 11th 2015 (Table 1). Approximately half of the sites had been monitored in 2012 and/or 2013 under the SCP sampling program (Table 2).

Sample collection was scheduled to occur in late summer after a pulse of water was released from Millerton Reservoir to meet Exchange Contractor obligations. Sampling occurred after pulse flows had reached the study area and, in the expert opinion of Reclamation hydrologists, had been in the study area for sufficient time to allow for intermixing with pre-existing ground water. In contrast, prior SCP sample collection events were conducted under low-flow (non-pulse) conditions.

Sampling was accomplished by two independent teams of samplers. Surface water grab samples were collected with high-density polyethylene (HDPE) churn splitters and ground water samples were collected with HDPE bailers. Ground water samples were collected using two new bailers for each site: one new bailer to purge water and a second to collect samples. Three or more well casing volumes were purged prior to sample collection.

All field procedures (e.g. clean sample collection and handling, churn splitter use, sample transportation, record keeping) were performed as described in the project

QAPP (Reclamation, 2015) following standard MP-157 procedures for environmental sampling (Reclamation, 2012a). Procedures were consistent with those used in previous SCP sample collections. In summary, Nitrile gloves were worn when handling samples or equipment and gloves were changed between sampling sites. Prior to, between, and after use, all sampling equipment was scrubbed with Alconox liquid detergent, then triple-rinsed with de-ionized water. Mercury and cadmium samples were collected using standard MP-157 procedures for clean collection of samples for trace-metals analysis (modified clean hands/dirty hands procedures). Samples were placed on blue-ice immediately after collection and were delivered to the analytical laboratory within 24 hours of collection.

Chemical Analysis

As with previous SCP sample collections, chemical analyses were performed by private analytical laboratories, following standard analytical methods. Specific laboratories and methods used are documented in the project QAPP (Reclamation, 2015). For reader convenience, the analytical methods used for each sample analysis are included in results tables and appendices.

Quality Assurance

Two independent processes were used to ensure that only high quality data is included in this report. Under one process, analytical results were evaluated by the contract analytical laboratories in accordance with the Quality Control (QC) procedures established within each analytical method. Independent from the QC process, data quality was evaluated by MP-157 personnel following a multifaceted quality assurance (QA) protocol (Reclamation, 2012b; Reclamation, 2015). MP-157 QA practices include auditing field and laboratory techniques to ensure that procedures and methods are followed according to standard operating procedure (SOP) and methods documents; in addition, the results of MP-157 QA samples are evaluated. MP-157 QA samples (e.g. duplicates, references, blanks) are analyzed alongside project samples but are submitted without identification (blind) to the laboratory. Results of QA samples are used to check sample results for precision, accuracy and potential contamination.

Water Quality Evaluation

For this study, water was analyzed for a broad suite of common inorganic constituents (e.g. metals, nutrients, anions, total dissolved solids, alkalinity), organic chemicals (e.g. pesticides, herbicides, fungicides), and common physical water-quality indicators (pH, dissolved oxygen, specific conductance, temperature, turbidity). Specific inorganic constituents were chosen for analysis meet the following two conditions: 1) the target analyte may have the potential to adversely affect the suitability of SJR or local canal water for the beneficial uses described below, and 2) the chemical is likely to be found in the region.

In this report, water quality is evaluated for the protection of agriculture, aquatic wildlife, recreational fishing, and the preservation of the Sacramento-SJR Delta. The specific water quality limits and objectives used in this investigation were chosen in accordance with MP-157 USBR standard practice and are listed in Appendix A. The quality of water for agricultural use is evaluated by comparison of results with Irrigation suitability goals (IRRIG SUIT) and goals for consumption of water by poultry and livestock water (P&L). Standards used to evaluate water quality for the protection of fresh water aquatic life (FWAL) include the National Toxics Rules (NTR), California Toxics Rules (CTR) and National Recommended Water Quality Criteria (NRWQC) for chronic (CC) and acute (IM) exposure. Water quality standards for the protection of recreational fishing (fish consumption) are evaluated through NTR, CTR and NRWQC Human Health (HH) criteria. Basin Plan (BP) standards are applicable to specific geographic regions alongside and downstream from, SJR Reach 3 and Reach 4.

Results

Results of physical measurements and inorganic chemical analyses are shown in Appendix B and results of physical measurements and inorganic chemical analyses are shown in Appendix C.

In all data results tables, potential issues with data quality are indicated by a “flag” that is paired with the result in question. Flags are used to identify analytical results which may not be as accurate or precise as results that are presented without qualification. Data in Appendix B or C may be flagged with the following qualifiers: V - result may vary excessively from the true value; H - result may have high bias; L - result may have low bias; T - sample extracted or analyzed past the holding time. There were no recognized data quality issues with any of the results that exceed applicable standards (Table 3).

An extensive discussion of QA findings is discussed in the Quality Assurance Summary Report (Appendix D).

Organic Chemicals

No organic chemicals were detected in any ground or surface water samples collected in 2015 (Appendix B) and no data quality issues were identified for any organic analyses.

As shown in Table 2, only one site that had previous detections of organic constituents was sampled (MW-11-150). The concentration of Disulfoton, an organophosphate pesticide, was detected at 0.67 µg/L at this site in May 2012. This concentration is higher than the acute exposure limit for the protection of fresh water aquatic life (0.05 µg/L; NRWQC-IM).

Inorganic Constituents

Results of inorganic analyses and physical measurements are shown in Appendix C. For ease of data interpretation, applicable water quality standards are paired with corresponding analytical results and historic results (2012 and 2013) are shown for sites that were previously monitored.

In Appendix C data tables, green highlighting indicates that results that are within (meet) applicable water quality limits. Pink highlighting indicates that results are outside of limits (fail to meet quality standards). If it is not possible to evaluate whether a chemical result meets, or fails to meet, a water quality standard - then the results are highlighted in orange. For example, the mercury concentration for sample SCP095 is reported as <100 ng/L but the quality limit for mercury is <50 ng/L. In this case, the row is highlighted orange because it is not possible to tell if the sample contains <50 ng/L mercury. Another instance: arsenic doesn't have a standard for total (unfiltered) arsenic so the standard for dissolved (filtered) arsenic (<10 µg/L) is applied. This is useful because an unfiltered sample contains both dissolved and particulate constituents. If the unfiltered sample contains <10µg/L arsenic, then the sample meets the water quality standards for total arsenic and the row is highlighted green. As is the case with SCP-040 however, if the sample had an arsenic concentration >10 µg/L, the row would be highlighted in orange. It is not possible to tell from a total analysis which portion of the arsenic is in solution (dissolved) and which portion is particulate (total), therefore it isn't possible to tell whether or not the standard for dissolved arsenic has been exceeded.

Results that fail to meet associated water quality standards, or that cannot be evaluated, are summarized in Table 3 and highlighted as described above.

Reference Citations

CVRWQCB, 2008, *Irrigated Lands Regulatory Program. Existing Conditions Report*. Central Valley Regional Water Quality Control Board, Sacramento, CA. December. Chapter 4, page 4-5.

CVRWQCB, 1998, *The Water Quality Control Plan (Basin Plan) for the California Regional Water Quality Control Board - Central Valley Region, Fourth Edition*, 148 p. With amendments through 2010.
http://www.swrcb.ca.gov/rwqcb5/water_issues/basin_plans/.

Marshack, J.B. 2011, *A Compilation of Water Quality Goals*. August 2003 with Tables Updated September 2011: California Regional Water Quality Control Board, Central Valley Region.
http://www.swrcb.ca.gov/water_issues/programs/water_quality_goals/.

Water Quality Monitoring for SJR Seepage Management

Reclamation, 2012a, *Standard Operating Procedures for Environmental Monitoring*, United States Bureau of Reclamation, Mid Pacific Region, Division of Environmental Affairs, August, 133p.

Reclamation, 2012b, *Standard Operating Procedures for Quality Assurance 2012-07*, United States Bureau of Reclamation, Mid Pacific Region, Environmental Monitoring Branch, May, 61p. plus appendices.

Reclamation, 2015, *Water Quality Monitoring for San Joaquin River Seepage Management Projects – Quality Assurance Project Plan*, United States Bureau of Reclamation, Mid Pacific Region, Division of Environmental Affairs, November, 55p. plus appendices.

Table 1 - Sample Collection Summary - Sample IDs, Collection Dates, Site Locations, and Quality Assurance Designations

Sample Code	Site Name	Aug 10 2015	Aug 11 2015	Matrix	Depth (ft)	Latitude (N)	Longitude (W)	QA Code	Sample Rationale
SCP- 086	San Joaquin River at Sack Dam	x		SW	0	36° 59' 01.08"	120° 30' 01.64"	R	Possible discharge point for drainwater
SCP- 116	San Joaquin River at Sack Dam	x		"	"	"	"	D	"
SCP- 113	San Joaquin River at Sack Dam	x		"	"	"	"	S/F	"
SCP- 112	San Joaquin River at Sack Dam	x		"	"	"	"	B	"
SCP- 087	Poso Canal at Valeria Avenue	x		SW	0	36° 58' 55.89"	120° 30' 03.22"		Possible discharge point for drainwater
SCP- 088	Well MW-12-183	x		GW	30	36° 58' 53.82"	120° 30' 01.23"		SJR Seepage WQ Estimate
SCP- 089	Well MW-12-181	dry, not collected		GW	35	36° 58' 28.59"	120° 29' 40.27"		SJR Seepage WQ Estimate
SCP- 090	Well MW-11-150	x		GW	35	36° 58' 12.59"	120° 29' 10.00"		SJR Seepage WQ Estimate
SCP- 091	Well MW-13-212	dry, not collected		GW		36° 57' 18.36"	120° 28' 39.36"		SJR Seepage WQ Estimate
SCP- 092	Well MW-13-210	dry, not collected		GW		36° 56' 40.92"	120° 28' 33.60"		SJR Seepage WQ Estimate
SCP- 093	San Joaquin River at MW-13-210		x	SW	0	36° 56' 40.18"	120° 28' 36.03"		Possible discharge point for drainwater
SCP- 094	Columbia Canal at Eastside Drive		x	SW	0	36° 50' 25.97"	120° 24' 34.69"		Possible discharge point for drainwater
SCP- 095	Well MW-12-190		x	GW	30	36° 50' 11.20"	120° 25' 00.98"		SJR Seepage WQ Estimate
SCP- 096	Well MW-12-191		x	GW	30	36° 50' 35.27"	120° 25' 39.18"		SJR Seepage WQ Estimate
SCP- 097	Well PZ-R3-7		x	GW	25	36° 50' 06.66"	120° 24' 27.31"		SJR Seepage WQ Estimate
SCP- 098	San Joaquin River at Well PZ-R3-7		x	SW	0	36° 50' 05.95"	120° 24' 29.24"		Possible discharge point for drainwater
SCP- 099	Well MW-12-185		x	GW	30	36° 49' 28.63"	120° 24' 08.64"		SJR Seepage WQ Estimate
SCP- 100	Well MW-13-216		x	GW		36° 58' 33.96"	120° 29' 24.00"		SJR Seepage WQ Estimate
SCP- 101	Well MW-13-215		x	GW		36° 58' 22.66"	120° 29' 02.45"		SJR Seepage WQ Estimate
SCP- 102	Well MW-11-157	dry, not collected		GW		36° 57' 58.58"	120° 29' 14.35"		SJR Seepage WQ Estimate
SCP- 103	Columbia Canal at Terminous		x	SW	0	36° 57' 49.50"	120° 28' 59.59"	R	Possible discharge point for drainwater
SCP- 117	"		x	"	"	"	"	D	"
SCP- 111	"		x	"	"	"	"	S	"
SCP- 110	"		x	"	"	"	"	B	"
SCP- 104	Well MW-13-213		x	GW		36° 57' 50.04"	120° 29' 01.32"		SJR Seepage WQ Estimate

MW = Monitoring Well
 PZ = Piezometer Well
 SW = Surface Water
 GW = Ground Water

WQ = Water Quality
 QA = Quality Assurance
 R = Environmental sample used for D and S/F comparisons
 D = Duplicate of environmental "R" sample

S = Spike of environmental "R" sample
 F = Reference standard
 B = sample blank

Table 2 - Seepage Control Sample Sites - 2012 to 2015

Site Name	Matrix	Location		Dates Sampled		
		Latitude (N)	Longitude (W)	Dec. 2012	May 2013	Aug. 2015
Columbia Canal at Eastside Dr	SW	36° 50' 25.97"	120° 24' 34.69"	-	Y	Y
Eastside Bypass at El Nido Rd	SW	37° 07' 40.18"	120° 35' 17.28"	-	-	-
Lonetree ID Canal at El Nido Rd	SW	37° 07' 40.25"	120° 34' 51.68"	-	Y	-
Poso Canal at Valeria Avenue	SW	36° 58' 55.89"	120° 30' 03.22"	-	Y	Y
Riverside Canal at Willis Rd	SW	37° 05' 22.11"	120° 34' 19.76"	-	Y	-
San Joaquin River at Sack Dam	SW	36° 59' 01.08"	120° 30' 01.64"	Y	Y	Y
Sand Slough at El Nido Rd	SW	37° 07' 40.62"	120° 36' 05.24"	Y	Y	-
SJR at MW-13-210	SW	36° 56' 40.18"	120° 28' 36.03"	-	-	Y
SJR at PZ-R3-7	SW	36° 50' 05.95"	120° 24' 29.24"	-	-	Y
Columbia Canal at Terminus	SW	36° 57' 49.50"	120° 28' 59.59"	-	-	Y
Drain Sump L-36	GW	37° 10' 16.56"	120° 39' 52.23"	Y	Y	-
Drain Sump L-43	GW	37° 09' 25.87"	120° 37' 04.47"	-	Y	-
Drain Sump L-49	GW	37° 07' 40.42"	120° 35' 28.75"	-	Y	-
Drain Sump L-50	GW	37° 08' 32.64"	120° 36' 04.19"	Y	Y	-
Nickel N. Drain Sump - E. Drain	GW	37° 06' 11.62"	120° 35' 20.33"	Y	Y	-
Nickel N. Drain Sump - N. Drain	GW	37° 06' 11.62"	120° 35' 20.33"	Y	Y	-
Nickel N. Drain Sump - S. Drain	GW	37° 06' 11.62"	120° 35' 20.33"	Y	Y	-
Nickel S. Drain Sump	GW	37° 05' 41.05"	120° 34' 40.44"	Y	Y	-
Well MW-09-85B	GW	37° 03' 23.05"	120° 32' 57.91"	-	-	-
Well MW-10-89	GW	37° 01' 40.54"	120° 32' 39.82"	Y	Y	-
Well MW-10-90	GW	37° 07' 42.19"	120° 35' 05.48"	Y	Y	-
Well MW-10-94	GW	37° 08' 58.35"	120° 35' 05.17"	Y	Y	-
Well MW-11-149	GW	37° 03' 55.36"	120° 33' 24.58"	Y	Y	-
Well MW-11-150	GW	36° 58' 12.59"	120° 29' 10.00"	Y	Y	Y
Well MW-12-165	GW	37° 06' 46.68"	120° 35' 11.29"	Y	Y	-
Well MW-12-166	GW	37° 06' 46.25"	120° 33' 53.16"	Y	-	-
Well MW-12-169	GW	37° 06' 23.79"	120° 35' 09.80"	Y	Y	-
Well MW-12-170	GW	37° 10' 16.98"	120° 39' 00.87"	-	Y	-
Well MW-12-172	GW	37° 08' 32.50"	120° 36' 05.06"	Y	Y	-
Well MW-12-174	GW	37° 08' 12.60"	120° 35' 04.53"	Y	Y	-
Well MW-12-177	GW	37° 06' 45.89"	120° 34' 42.28"	Y	Y	-
Well MW-12-178	GW	37° 04' 37.96"	120° 33' 51.76"	Y	-	-
Well MW-12-181	GW	36° 58' 28.59"	120° 29' 40.27"	Y	-	-
Well MW-12-183	GW	36° 58' 53.82"	120° 30' 01.23"	Y	Y	Y
Well MW-12-185	GW	36° 49' 28.63"	120° 24' 08.64"	Y	Y	Y
Well MW-12-190	GW	36° 50' 11.20"	120° 25' 00.98"	Y	Y	Y
Well MW-12-191	GW	36° 50' 35.27"	120° 25' 39.18"	-	Y	Y
Well MW-13-213	GW	36° 57' 50.04"	120° 29' 01.32"	-	-	Y
Well MW-13-215	GW	36° 58' 22.66"	120° 29' 02.45"	-	-	Y
Well MW-13-216	GW	36° 58' 33.96"	120° 29' 24.00"	-	-	Y
PZ-R3-7	GW	36° 50' 06.66"	120° 24' 27.31"	-	-	Y

Shading Indicates Organic Constituents Detected

WQ Monitoring for SJR Seepage Management

Table 3 - Inorganic Results that Fail to Meet Applicable Water Quality Standards, 2012-2013

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	WQ LIMIT	WQ OBJECTIVE
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ALKALINITY	mg/l	18.2		2	SM 2320B	> 20	NRWQC-CC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	ALUMINUM	ug/l	350		20		< 87	NRWQC-CC
SCP042	5/28/2013	Poso Canal at Valeria Ave	ALUMINUM	ug/l	2200		20		< 87	NRWQC-CC
SCP024	12/13/2012	San Joaquin River at Sack Dam	ALUMINUM	ug/l	270		20		< 87	NRWQC-CC
SCP041	5/28/2013	San Joaquin River at Sack Dam	ALUMINUM	ug/l	540		20		< 87	NRWQC-CC
SCP016	12/13/2012	Well MW-11-150	ALUMINUM	ug/l	9700		1000		< 87	NRWQC-CC
SCP045	5/28/2013	Well MW-11-150	ALUMINUM	ug/l	3700		20		< 87	NRWQC-CC
SCP017	12/13/2012	Well MW-12-183	ALUMINUM	ug/l	220		20		< 87	NRWQC-CC
SCP043	5/28/2013	Well MW-12-183	ALUMINUM	ug/l	150		20		< 87	NRWQC-CC
SCP035	12/13/2012	Well MW-12-185	ALUMINUM	ug/l	23000		2000		< 87	NRWQC-CC
SCP040	5/28/2013	Well MW-12-185	ALUMINUM	ug/l	16000		200		< 87	NRWQC-CC
SCP036	12/13/2012	Well MW-12-190	ALUMINUM	ug/l	3500		200		< 87	NRWQC-CC
SCP038	5/28/2013	Well MW-12-190	ALUMINUM	ug/l	14000		200		< 87	NRWQC-CC
SCP039	5/28/2013	Well MW-12-191	ALUMINUM	ug/l	18000		200		< 87	NRWQC-CC
SCP104	8/11/2015	Well MW-13-213	ALUMINUM (DISSOLVED)	ug/l	194		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP103	8/11/2015	Columbia Canal @ Terminus	ARSENIC (DISSOLVED)	ug/l	16.1 ²		0.5	EPA 200.8	< 10	BP
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ARSENIC (DISSOLVED)	ug/l	13.8 ²		0.5	EPA 200.8	< 10	BP
SCP087	8/10/2015	Poso Canal at Valeria Ave	ARSENIC (DISSOLVED)	ug/l	11.3 ²		0.5	EPA 200.8	< 10	BP
SCP101	8/11/2015	Well MW-13-215	BICARBONATE AS CaCO3	mg/l	93.8		2	SM 2320B	< 92	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	BICARBONATE AS CaCO3	mg/l	97.6		2	SM 2320B	< 92	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	BICARBONATE AS CaCO3	mg/l	100		2	SM 2320B	< 92	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	BICARBONATE AS CaCO3	mg/l	104		2	SM 2320B	< 92	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	BICARBONATE AS CaCO3	mg/l	120		2	SM 2320B	< 92	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	BICARBONATE AS CaCO3	mg/l	120		2	SM 2320B	< 92	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	BICARBONATE AS CaCO3	mg/l	121		2	SM 2320B	< 92	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	BICARBONATE AS CaCO3	mg/l	127		2	SM 2320B	< 92	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	BICARBONATE AS CaCO3	mg/l	130		2	SM 2320B	< 92	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	BICARBONATE AS CaCO3	mg/l	138		2	SM 2320B	< 92	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	BICARBONATE AS CaCO3	mg/l	140		2	SM 2320B	< 92	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	CADMIUM (DISSOLVED)	ug/l	10.3 ³		0.1	EPA 1638	< 2.84	CTR-HDCC
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLORIDE	mg/l	117		5	EPA 300.0	< 106	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	CHLORIDE	mg/l	115		5	EPA 300.0	< 106	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	CHLORIDE	mg/l	131		5	EPA 300.0	< 106	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	CHLORIDE	mg/l	151		5	EPA 300.0	< 106	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	CHLORIDE	mg/l	112		5	EPA 300.0	< 106	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	COPPER	ug/l	14		0.5		< 10	BP
SCP039	5/28/2013	Well MW-12-191	COPPER	ug/l	10		0.5		< 9.5	CTR-HDCC
SCP103	8/11/2015	Columbia Canal @ Terminus	COPPER (DISSOLVED)	ug/l	3.2		0.5	EPA 200.8	< 1.87	CTR-HDCC
SCP042	5/28/2013	Poso Canal at Valeria Ave	Electrical Conductivity	µS/cm	621		± 0.5%		< 500	P&L
SCP087	8/10/2015	Poso Canal at Valeria Ave	Electrical Conductivity	µS/cm	856		± 0.5%	YSI Sonde	< 500	P&L
SCP024	12/13/2012	San Joaquin River at Sack Dam	Electrical Conductivity	µS/cm	575		± 0.5%		< 500	P&L
SCP041	5/28/2013	San Joaquin River at Sack Dam	Electrical Conductivity	µS/cm	532		± 0.5%		< 500	P&L
SCP016	12/13/2012	Well MW-11-150	Electrical Conductivity	µS/cm	524		± 0.5%		< 500	P&L
SCP045	5/28/2013	Well MW-11-150	Electrical Conductivity	µS/cm	524		± 0.5%		< 500	P&L
SCP017	12/13/2012	Well MW-12-183	Electrical Conductivity	µS/cm	605		± 0.5%		< 500	P&L
SCP043	5/28/2013	Well MW-12-183	Electrical Conductivity	µS/cm	633		± 0.5%		< 500	P&L
SCP036	12/13/2012	Well MW-12-190	Electrical Conductivity	µS/cm	526		± 0.5%		< 500	P&L
SCP039	5/28/2013	Well MW-12-191	Electrical Conductivity	µS/cm	505		± 0.5%		< 500	P&L
SCP035	12/13/2012	Well MW-12-185	LEAD	ug/l	6.8		0.2		< 4.6	CTR-HDCC
SCP036	12/13/2012	Well MW-12-190	LEAD	ug/l	2.5		0.2		< 2.3	CTR-HDCC
SCP038	5/28/2013	Well MW-12-190	LEAD	ug/l	4.9		0.2		< 3.6	CTR-HDCC
SCP039	5/28/2013	Well MW-12-191	LEAD	ug/l	6.7		0.2		< 3.3	CTR-HDCC
SCP096	8/11/2015	Well MW-12-191	MERCURY	ng/l	241		100	EPA 1631E	< 50	CTR-HH
SCP104	8/11/2015	Well MW-13-213	MERCURY	ng/l	5080 ⁴		400	EPA 1631E	< 50	CTR-HH
SCP101	8/11/2015	Well MW-13-215	MERCURY	ng/l	62.5		40	EPA 1631E	< 50	CTR-HH
SCP087	8/10/2015	Poso Canal at Valeria Ave	NITRATE AS NO3 (DISSOLVED)	mg/l	5.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	NITRATE AS NO3 (DISSOLVED)	mg/l	5	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	SODIUM	mg/l	69		10	EPA 200.7	< 69	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	SODIUM	mg/l	70		10	EPA 200.7	< 69	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	SODIUM	mg/l	72		10	EPA 200.7	< 69	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	SODIUM	mg/l	72		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	SODIUM	mg/l	76		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	SODIUM	mg/l	76		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	SODIUM (DISSOLVED)	mg/l	69.6		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	SODIUM (DISSOLVED)	mg/l	73.2		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	SODIUM (DISSOLVED)	mg/l	79.3		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	SODIUM (DISSOLVED)	mg/l	81.4		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	SODIUM (DISSOLVED)	mg/l	103		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	TDS	mg/l	478		20	SM2540C	< 450	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	TDS	mg/l	492		20	SM2540C	< 450	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	TDS	mg/l	510 ⁵		10	SM2540C	< 450	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	TDS	mg/l	514 ⁵		10	SM2540C	< 450	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	ZINC	ug/l	120 ⁶		20		< 100	BP
SCP036	12/13/2012	Well MW-12-190	ZINC	ug/l	130 ⁷		20		< 97	CTR-HDCC
SCP016	12/13/2012	Well MW-11-150	ZINC	ug/l	150 ⁶		20		< 100	BP
SCP039	5/28/2013	Well MW-12-191	ZINC	ug/l	200 ⁸		20		< 100	BP
SCP097	8/11/2015	Well PZ-R3-7	ZINC (DISSOLVED)	ug/l	840		20	EPA 200.8	< 151.39	CTR-HDCC

¹ Limit is for total (unfiltered sample); sample was dissolved (filtered before analysis)

² Sample meets irrigation (100 µg/L) and poultry and livestock (200 µg/L) goals

³ Result also exceeds USEPA PMCL (5.0 ug/L) and Irrigation Suitability goal (10 µg/L)

⁴ Result also exceeds FWAL-CC (770 ng/L) and FWAL - MC (1400 ng/L)

⁵ Result also exceeds USEPA secondary MCL (500 mg/L)

⁶ Result meets the CTR standard (153 ug/L for SCP035; 165 µg/L for SCP016)

⁷ Result also exceeds Basin Plan standard (100 µg/L)

⁸ Result also exceeds the chronic CTR-HDCC standard (122ug/L)

Appendix A

Water Quality Standards for Seepage Management

Water Quality Monitoring for SJR Seepage Management

Appendix A Water Quality Standards for Seepage Management Projects

Analyte	Basin Plan	Freshwater Aquatic Life						Agricultural Goals		Human Health	
		CTR and/or NTR			NRWQC			Irrigation Suitability	Poultry & Livestock	Fish & Water Consumption	
		CC	MC	IM	CC	MC	IM			CTR	NRWQC
PHYSICAL MEASUREMENTS (units as noted, standards apply to surface water only)											
pH (units)	6.5 - 8.5	-	-	-	-	-	6.5 - 9.0	6.5 - 8.4 ¹⁴	-	-	-
EC (uS/cm)	-	-	-	-	-	-	-	<700 - <3,000 ¹⁴	<500	-	-
Temperature (°C)	-	-	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen (mg/L)	> 7.0	-	-	-	>5.5	-	>3.0	-	-	-	-
CONVENTIONAL PARAMETERS (mg/L)											
Ammonia (as N)	-	-	-	-	<1.94 ³	<9.64 - <14.4 ⁴	-	-	-	-	-
Bicarbonate Alkalinity	-	-	-	-	-	-	-	< 92 - < 519 ¹⁴	-	-	-
Calcium	-	-	-	-	-	-	-	-	-	-	-
Chloride	-	-	-	-	<230	<860	-	< 106 - < 310 ¹⁴	-	-	-
Fluoride	-	-	-	-	-	-	-	< 1	-	-	-
Hardness	-	-	-	-	-	-	-	-	-	-	-
Magnesium	-	-	-	-	-	-	-	-	<250	-	-
Nitrate (as NO ₃)	-	-	-	-	-	-	-	< 5 - < 30 ¹⁴	-	-	-
Nitrate + Nitrite (as N)	-	-	-	-	-	-	-	-	<100	-	-
Oil and Grease	-	-	-	-	-	-	-	-	-	-	-
Sodium	-	-	-	-	-	-	-	< 69 ¹⁵	-	-	-
Sodium Absorption Ratio	-	-	-	-	-	-	-	-	-	-	-
Soluble Orthophosphate	-	-	-	-	-	-	-	-	-	-	-
Sulfate	-	-	-	-	-	-	-	-	-	-	-
Sulfide	-	-	-	-	-	-	-	-	-	-	-
Total Alkalinity	-	-	-	-	>20	-	-	-	-	-	-
Total Dissolved Solids	-	-	-	-	-	-	-	<450 - <2,000 ¹⁴	-	-	-
Total Organic Carbon	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	-	-	-	-	-	-	-	-	-	-	-
WeaK Acid Dissociable Cyanide	-	-	-	-	-	-	-	-	-	-	-
METALS - TOTAL (µg/L)											
Aluminum	-	-	-	-	<87	<750	-	<5000	<5000	-	-
Arsenic	-	-	-	-	-	-	-	<100	<200	-	-
Barium	-	-	-	-	-	-	-	-	-	-	-
Beryllium	-	-	-	-	-	-	-	<100	-	-	-
Boron	-	-	-	-	-	-	-	<700 - <3000 ¹⁴	<5000	-	-
Cadmium	-	HD	-	-	HD	-	-	<10	<50	-	-
Chromium	-	HD	NC	-	HD	NC	-	<100	<1000	-	-
Chromium III	-	<150 ⁸	-	-	-	-	-	-	-	-	-
Cobalt	-	-	-	-	-	-	-	<50	-	-	-
Copper	-	HD	NC	-	HD	NC	-	<200	<500	-	-
Cynide	-	-	-	-	-	-	-	-	-	-	-
Iron	-	-	-	-	<1000	-	-	<5000	-	-	-
Lead	-	HD	NC	-	HD	NC	-	<5000	<100	-	-
Manganese	-	-	-	-	-	-	-	<200	-	-	<100
Mercury	-	-	-	-	<0.77	<1.4	-	-	<10	<0.05	-
Methyl Mercury	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	-	-	-	-	-	-	-	<10 ¹⁵	-	-	-
Nickel	-	HD	NC	-	-	-	-	<200	<200	<4600	<4600
Selenium	-	<5 ¹	<20 ¹	-	<5	-	-	<20 ¹⁵	<50	-	<4200
Silver	-	-	-	<2.04 ⁸	-	-	-	-	-	-	-
Vanadium	-	-	-	-	-	-	-	<100	-	-	-
Zinc	-	HD	-	-	HD	-	-	<2000	<24000	-	<26000
METALS - DISSOLVED (µg/L)											
Aluminum	-	-	-	-	-	-	-	-	-	-	-
Arsenic	<10 ⁶	<150	<340	-	<150	<340	-	-	-	-	<0.14
Barium	<100 ⁶	-	-	-	-	-	-	-	-	-	-
Beryllium	-	-	-	-	-	-	-	-	-	-	-
Boron	-	-	-	-	-	-	-	-	-	-	-
Cadmium	-	HD	-	-	HD	-	-	-	-	-	-
Chromium	-	HD	-	-	HD	-	-	-	-	-	-
Chromium III	-	-	-	-	-	-	-	-	-	-	-
Cobalt	-	-	-	-	-	-	-	-	-	-	-
Copper	<10 ⁶	HD	-	-	HD	-	-	-	-	-	-
Cyanide	>0.01 ⁶	>0.0052 ¹	>0.022 ¹	-	-	-	-	-	-	-	-
Iron	<300 ⁶	-	-	-	<1000	-	-	-	-	-	-
Lead	-	HD	-	-	HD	-	-	-	-	-	-
Manganese	<50 ⁶	-	-	-	-	-	-	-	-	-	<100
Mercury	-	-	-	-	<0.77	-	-	-	-	-	-
Methyl Mercury	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	<19 ¹⁰ - <50	-	-	-	-	-	-	-	-	-	-
Nickel	-	HD	-	-	HD	-	-	-	-	-	-
Selenium	< 5 ¹⁰ - 20 max	-	-	-	-	-	-	-	-	-	-
Silver	<10 ⁶	-	-	-	-	-	-	-	-	-	-
Vanadium	-	-	-	-	-	-	-	-	-	-	-
Zinc	<100 ⁶	HD	-	-	HD	-	-	<2000	<24000	-	<26000

Water Quality Monitoring for SJR Seepage Management

Appendix A Water Quality Standards for Seepage Management Projects

Analyte	Basin Plan	Freshwater Aquatic Life						Agricultural Goals		Human Health	
		CTR and/or NTR			NRWQC			Irrigation Suitability	Poultry & Livestock	Fish & Water Consumption	
		CC	MC	IM	CC	MC	IM			CTR	NRWQC
CARBAMATE INSECTICIDES (ug/L)											
3-Hydroxycarbofuran	-	-	-	-	-	-	-	-	-	-	-
Aldicarb	-	-	-	-	-	-	-	-	-	-	-
Aldicarb Sulfone	-	-	-	-	-	-	-	-	-	-	-
Aldicarb Sulfoxide	-	-	-	-	-	-	-	-	-	-	-
Benomyl	-	-	-	-	-	<8.8	-	-	-	-	-
Captan	-	-	-	-	-	-	-	-	-	-	-
Carbaryl	-	-	-	-	2.53 ²	<2.53 ²	<0.02	-	-	-	-
Carbofuran	-	-	-	-	-	-	<0.5	-	-	-	-
Methiocarb	-	-	-	-	-	-	-	-	-	-	-
Methomyl	-	-	-	-	-	-	-	-	-	-	-
Oxamyl	-	-	-	-	-	-	-	-	-	-	-
Propoxur (Baygon)	-	-	-	-	-	-	-	-	-	-	-
CHLORINATED PESTICIDES - DDTs (ug/L)											
2,4'-DDD	-	-	-	-	-	-	-	-	-	-	-
2,4'-DDE	-	-	-	-	-	-	-	-	-	-	-
2,4'-DDT	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDD	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	-	-	-	-	-	-	-	-	-	-	-
Total DDD	-	-	-	-	<0.001	-	<1.1	-	-	-	-
Total DDE	-	-	-	-	<0.001	-	<1.1	-	-	-	-
Total DDT	-	-	-	-	<0.001	-	<1.1	-	-	-	-
HERBICIDES (ug/L)											
Alachlor	-	-	-	-	-	-	<76	-	-	-	-
Atrazine	-	-	-	-	-	<1500	<1	-	-	-	-
Dalapon	-	-	-	-	-	-	<110	-	-	-	-
Dicamba	-	-	-	-	-	-	<200	-	-	-	-
Diquat	-	-	-	-	-	-	<0.5	-	-	-	-
Glyphosate	-	-	-	-	-	-	-	-	-	-	-
Metolachlor	-	-	-	-	-	-	<100	-	-	-	-
Metribuzin	-	-	-	-	-	-	<100	-	-	-	-
Molinate	-	-	-	-	-	-	<13	-	-	-	-
Pendimethalin	-	-	-	-	-	-	-	-	-	-	-
Propachlor	-	-	-	-	-	-	<8	-	-	-	-
Simazine	-	-	-	-	-	-	<10	-	-	-	-
Thiobencarb	-	-	-	-	-	-	<3.1	-	-	-	-
Total DCPA Mono & Diacid Degradates	-	-	-	-	-	-	<14300	-	-	-	-
POLY-AROMATIC HYDROCARBONS (ug/L)											
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1016	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Aroclor 1221	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Aroclor 1232	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Aroclor 1242	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Aroclor 1248	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Aroclor 1254	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Aroclor 1260	-	<0.014 ¹	-	-	-	-	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-
Total HPAH	-	-	-	-	-	-	<11	-	-	-	-
Total LPAH	-	-	-	-	-	-	-	-	-	-	-
Total PCB	-	<0.014 ¹	-	-	<0.014	-	-	-	-	-	-
ORGANOCHLORINE PESTICIDES (ug/L)											
Aldrin	-	-	-	<3	-	-	<3	-	-	-	-
Bentazon	-	-	-	-	-	-	-	-	-	-	-
Chlordane (technical)	-	<0.0043 ¹	-	<2.4	<0.0043	-	<2.4	-	-	-	-
Dieldrin	-	<0.056	<0.24	-	<0.056	<0.24	-	-	-	-	-
Endosulfan I	-	<0.056 ¹	-	<0.22	<0.056	-	<0.22	-	-	-	-
Endosulfan II	-	-	-	-	-	-	-	-	-	-	-
Endosulfan Sulfate	-	-	-	-	-	-	-	-	-	-	-
Endrin	-	<0.036	<0.086	-	<0.036	<0.086	-	-	-	-	-
Endrin Aldehyde	-	-	-	-	-	-	-	-	-	-	-
Gamma-BHC	-	-	<0.95	-	<0.08	<0.95	-	-	-	-	-
Heptachlor	-	<0.0038 ¹	-	<0.52	<0.0038	-	0.52	-	-	-	-
Heptachlor Epoxide	-	<0.0038 ¹	-	<0.52	<0.0038	-	<0.52	-	-	-	-
Methoxychlor	-	-	-	-	-	-	<0.03	-	-	-	-
Mirex	-	-	-	-	-	-	<0.001	-	-	-	-
Toxaphene	-	<0.0002	<0.73	-	<0.0002	<0.73	-	-	-	-	-
PHTHALATES (ug/L)											
Bis(2-ethylhexyl) Phthalate	-	-	-	-	-	-	-	-	-	-	-
Di-N-Butyl Phthalate	-	-	-	-	-	-	-	-	-	-	-
Dimethyl Phthalate	-	-	-	-	-	-	-	-	-	-	-
Butyl Benzyl Phthalate	-	-	-	-	-	-	-	-	-	-	-
Di-N-Octyl Phthalate	-	-	-	-	-	-	-	-	-	-	-
Diethyl Phthalate	-	-	-	-	-	-	-	-	-	-	-

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		CC	MC	IM	CC	MC	IM			CTR	NRWQC
PESTICIDES (ug/L)											
Rotenone	-	-	-	-	-	-	<10	-	-	-	-
ORGANOPHOSPHORUS PESTICIDES (ug/L)											
0,0,0- Triethylphosphorothioate	-	-	-	-	-	-	-	-	-	-	-
Azinphosmethyl	-	-	-	-	-	-	<0.01	-	-	-	-
Bolstar	-	-	-	-	-	-	-	-	-	-	-
Chlorpyrifos	<0.025 MC/0.015 CC	<0.014 ²	<0.02 ²	-	<0.041	<0.083	-	-	-	-	-
Coumaphos	-	-	-	-	-	-	-	-	-	-	-
Demeton-O	-	-	-	-	-	-	<0.1	-	-	-	-
Demeton-S	-	-	-	-	-	-	<0.1	-	-	-	-
Demeton-Total	-	-	-	-	-	-	<0.2 ¹⁶	-	-	-	-
Diazinon	<0.16 MC/< 0.10 CC	<0.05 ²	<0.08 ²	-	<0.17	<0.17	-	-	-	-	-
Dichlorvos	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	-	-	-	-	-	-	-	-	-	-	-
Disulfoton	-	-	-	-	-	-	<0.05	-	-	-	-
Ethion	-	-	-	-	-	-	<0.02	-	-	-	-
Ethoprop	-	-	-	-	-	-	-	-	-	-	-
Ethyl Parathion	-	-	-	-	-	-	-	-	-	-	-
Famphur	-	-	-	-	-	-	-	-	-	-	-
Fensulfotion	-	-	-	-	-	-	-	-	-	-	-
Fenthion	-	-	-	-	-	-	-	-	-	-	-
Malathion	-	-	-	-	-	-	<0.43 ²	<0.1	-	-	-
Merphos	-	-	-	-	-	-	-	-	-	-	-
Methyl Parathion	-	-	-	-	-	-	-	<0.08	-	-	-
Mevinphos	-	-	-	-	-	-	-	-	-	-	-
Naled	-	-	-	-	-	-	-	-	-	-	-
Parathion	-	-	-	-	<0.013	<0.065	-	-	-	-	-
Phorate	-	-	-	-	-	-	-	-	-	-	-
Ronnel	-	-	-	-	-	-	-	-	-	-	-
Stirofos	-	-	-	-	-	-	-	-	-	-	-
Sulfotep	-	-	-	-	-	-	-	-	-	-	-
Thionazin	-	-	-	-	-	-	-	-	-	-	-
Tokuthion	-	-	-	-	-	-	-	-	-	-	-
Trichloronate	-	-	-	-	-	-	-	-	-	-	-
PYRETHROID INSECTICIDES (ug/L)											
Allethrin	-	-	-	-	-	-	-	-	-	-	-
Bifenthrin	-	-	-	-	-	-	-	-	-	-	-
Cyfluthrin	-	-	-	-	-	-	-	-	-	-	-
Cypermethrin	-	-	-	-	-	-	<0.002	-	-	-	-
Deltamethrin/Tralomethrin	-	-	-	-	-	-	-	-	-	-	-
Dichloran	-	-	-	-	-	-	-	-	-	-	-
Esfenvalerate	-	-	-	-	-	-	-	-	-	-	-
Fenpropathrin	-	-	-	-	-	-	-	-	-	-	-
Fenvalerate (Pydrin)	-	-	-	-	-	-	-	-	-	-	-
L-Cyhalothrin	-	-	-	-	-	-	-	-	-	-	-
Permethrin (Total)	-	-	-	-	-	-	<0.03	-	-	-	-
Prallethrin	-	-	-	-	-	-	-	-	-	-	-
Sumithrin	-	-	-	-	-	-	-	-	-	-	-
Tefluthrin	-	-	-	-	-	-	-	-	-	-	-
SEMI-VOLATILE ORGANIC COMPOUNDS - CHLORINATED HYDROCARBONS (ug/L)											
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	-	-	-	-	-	-	-	-	-	-	-
SEMI-VOLATILE ORGANIC COMPOUNDS - PHENOLS (ug/L)											
2,4,6-Trichlorophenol	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	-	<4.5 ¹²	<5.8 ¹²	-	-	-	-	-	-	-	-
Phenol	-	-	-	-	-	-	-	-	-	-	-

¹ National Toxics Rule (NTR)

² California Dept. of Fish & Game (not a national standard)

³ Calculated based on lowest measured pH (7.7), average temperature (24°C)

⁴ 9.64 mg N/L if salmonids present; if absent, 14.4 mg N/L; based on lowest measured pH of 7.7

⁵ Draft; tentative; provisional

⁶ Criteria apply to waters in the Sac-SJR Delta

⁷ Based on approx. hardness of SJR/Mendota Pool water in an Aug, 2011 study

⁸ Based on lowest SJR water hardness (67 mg/l) measured in an Aug, 2011 study

⁹ Concentration in fish or shellfish tissue (mg/kg)

¹⁰ 4-day average for Se; monthly mean for Mo

¹¹ Criteria for Endosulfan

¹² Calculated based on lowest measured pH of 6.6

¹³ Ayers and Westcott, 1985

¹⁴ Values based on degree of restriction on use

¹⁵ Values based on water application rate

¹⁶ Value is sum of standard for Demeton-O and Demeton-S

Appendix B

Results of Organic Analyses

Appendix B Results of Organic Analyses for 2015

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD
SCP103	8/11/2015	Columbia Canal @ Terminus	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	2,4'-DDD	ug/l	<0.1		0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	2,4'-DDE	ug/l	<0.1		0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	2,4'-DDT	ug/l	<0.1		0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	2,4'-DINITROTOLUENE	ug/l	<0.1		0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP095	8/11/2015	Well MW-12-190	2,4-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	2,4-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	2,4-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	2,4-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	2,4-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	2,4-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	2,6-DINITROTOLUENE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	4,4'-DDD	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	4,4'-DDE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP086	8/10/2015	San Joaquin River at Sack Dam	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	4,4'-DDT	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ACENAPHTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ACENAPHTHYLENE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ACETOCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP094	8/11/2015	Columbia Canal at Eastside Drive	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ALACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ALDRIN	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ANTHRACENE	ug/l	<0.02	0.02	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP099	8/11/2015	Well MW-12-185	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082

Water Quality Monitoring for SJR Seepage Management

SCP101	8/11/2015	Well MW-13-215	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1016	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP099	8/11/2015	Well MW-12-185	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP101	8/11/2015	Well MW-13-215	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1221	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP099	8/11/2015	Well MW-12-185	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP101	8/11/2015	Well MW-13-215	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1232	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP099	8/11/2015	Well MW-12-185	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP101	8/11/2015	Well MW-13-215	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1242	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082

Water Quality Monitoring for SJR Seepage Management

SCP099	8/11/2015	Well MW-12-185	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP101	8/11/2015	Well MW-13-215	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1248	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP099	8/11/2015	Well MW-12-185	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP101	8/11/2015	Well MW-13-215	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1254	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP087	8/10/2015	Poso Canal at Valeria Ave	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP086	8/10/2015	San Joaquin River at Sack Dam	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP090	8/10/2015	Well MW-11-150	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP088	8/10/2015	Well MW-12-183	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP099	8/11/2015	Well MW-12-185	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP095	8/11/2015	Well MW-12-190	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP096	8/11/2015	Well MW-12-191	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP104	8/11/2015	Well MW-13-213	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP101	8/11/2015	Well MW-13-215	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP100	8/11/2015	Well MW-13-216	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP097	8/11/2015	Well PZ-R3-7	AROCLOR 1260	ug/l	<0.25	0.25	EPA 8082
SCP103	8/11/2015	Columbia Canal @ Terminus	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ATRAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	BENZ(A)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	BENZO(A)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	BENZO(A)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	BENZO(A)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	BENZO(A)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	BENZO(A)PYRENE	ug/l	<0.02	0.02	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	BENZO(B)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	BENZO(B)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	BENZO(B)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	BENZO(B)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	BENZO(B)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	BENZO(G,H,I)PERYLENE	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP103	8/11/2015	Columbia Canal @ Terminus	BENZO(K)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	BENZO(K)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	BENZO(K)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	BENZO(K)FLUORANTHENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	BENZO(K)FLUORANTHENE	ug/l	<0.02	0.02	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	BUTACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CAFFEINE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP104	8/11/2015	Well MW-13-213	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHLORDANE-ALPHA	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHLORDANE-GAMMA	ug/l	<0.01	0.01	EPA 8081A
SCP090	8/10/2015	Well MW-11-150	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHLORDANE-GAMMA	ug/l	<0.01	0.01	EPA 8081A
SCP096	8/11/2015	Well MW-12-191	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHLORDANE-GAMMA	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHLOROBENZILATE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHLORONEB	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHLOROTHALONIL	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	CHLOROTOLURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHLORPYRIFOS	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	CHRYSENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	CHRYSENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	CHRYSENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	CHRYSENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	CHRYSENE	ug/l	<0.02	0.02	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DIAZINON	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP094	8/11/2015	Columbia Canal at Eastside Drive	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	DIAZINON	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	DIBENZ(A,H)ANTHRACENE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP087	8/10/2015	Poso Canal at Valeria Ave	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP086	8/10/2015	San Joaquin River at Sack Dam	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP090	8/10/2015	Well MW-11-150	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP088	8/10/2015	Well MW-12-183	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP099	8/11/2015	Well MW-12-185	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP095	8/11/2015	Well MW-12-190	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP096	8/11/2015	Well MW-12-191	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP104	8/11/2015	Well MW-13-213	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP101	8/11/2015	Well MW-13-215	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP100	8/11/2015	Well MW-13-216	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP097	8/11/2015	Well PZ-R3-7	DIBROMOCHLOROPROPANE	ug/l	<0.01	0.01	EPA 551.1
SCP103	8/11/2015	Columbia Canal @ Terminus	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP101	8/11/2015	Well MW-13-215	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	DICHLORVOS	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	DIELDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	DIMETHOATE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	DI-N-OCTYL PHTHALATE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS

Water Quality Monitoring for SJR Seepage Management

SCP099	8/11/2015	Well MW-12-185	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	DIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ENDOSULFAN I	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ENDOSULFAN II	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ENDOSULFAN SULFATE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ENDRIN	ug/l	<0.2	0.2	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ENDRIN	ug/l	<0.2	0.2	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	ENDRIN ALDEHYDE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	EPTC	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP087	8/10/2015	Poso Canal at Valeria Ave	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP086	8/10/2015	San Joaquin River at Sack Dam	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP090	8/10/2015	Well MW-11-150	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP088	8/10/2015	Well MW-12-183	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP099	8/11/2015	Well MW-12-185	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP095	8/11/2015	Well MW-12-190	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP096	8/11/2015	Well MW-12-191	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP104	8/11/2015	Well MW-13-213	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP101	8/11/2015	Well MW-13-215	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP100	8/11/2015	Well MW-13-216	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1
SCP097	8/11/2015	Well PZ-R3-7	ETHYLENE DIBROMIDE	ug/l	<0.01	0.01	EPA 551.1

Water Quality Monitoring for SJR Seepage Management

SCP103	8/11/2015	Columbia Canal @ Terminus	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	FLUORANTHENE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	FLUORENE	ug/l	<0.05		0.05
SCP094	8/11/2015	Columbia Canal at Eastside Drive	FLUORENE	ug/l	<0.05		0.05
SCP087	8/10/2015	Poso Canal at Valeria Ave	FLUORENE	ug/l	<0.05		0.05
SCP093	8/11/2015	San Joaquin River @ MW-13-210	FLUORENE	ug/l	<0.05		0.05
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	FLUORENE	ug/l	<0.05		0.05
SCP086	8/10/2015	San Joaquin River at Sack Dam	FLUORENE	ug/l	<0.05		0.05
SCP090	8/10/2015	Well MW-11-150	FLUORENE	ug/l	<0.05		0.05
SCP088	8/10/2015	Well MW-12-183	FLUORENE	ug/l	<0.05		0.05
SCP099	8/11/2015	Well MW-12-185	FLUORENE	ug/l	<0.05		0.05
SCP095	8/11/2015	Well MW-12-190	FLUORENE	ug/l	<0.05		0.05
SCP096	8/11/2015	Well MW-12-191	FLUORENE	ug/l	<0.05		0.05
SCP104	8/11/2015	Well MW-13-213	FLUORENE	ug/l	<0.05		0.05
SCP101	8/11/2015	Well MW-13-215	FLUORENE	ug/l	<0.05		0.05
SCP100	8/11/2015	Well MW-13-216	FLUORENE	ug/l	<0.05		0.05
SCP097	8/11/2015	Well PZ-R3-7	FLUORENE	ug/l	<0.05		0.05
SCP103	8/11/2015	Columbia Canal @ Terminus	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HCH-ALPHA	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP104	8/11/2015	Well MW-13-213	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HCH-BETA	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HCH-DELTA	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HEPTACHLOR	ug/l	<0.03	0.03	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HEPTACHLOR EPOXIDE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HEXACHLORO BENZENE	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP088	8/10/2015	Well MW-12-183	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HEXACHLOROENZENE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	HEXACHLOROCYCLOPENTADIENE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	INDENO(1,2,3-CD)PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	ISOPROTURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS

Water Quality Monitoring for SJR Seepage Management

SCP093	8/11/2015	San Joaquin River @ MW-13-210	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	LINURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	MALATHION	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	METAZACHLOR	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP097	8/11/2015	Well PZ-R3-7	METHOXYCHLOR	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	METOLACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	METOXURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	METRIBUZIN	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	MOLINATE	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP096	8/11/2015	Well MW-12-191	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	MOLINATE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	PARATHION	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	PENDIMETHALIN	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	PERMETHRIN (TOTAL)	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP090	8/10/2015	Well MW-11-150	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	PROPACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	PROPANIL	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	PYRENE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	PYRIPROXYFEN	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP087	8/10/2015	Poso Canal at Valeria Ave	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	SIMAZINE	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP087	8/10/2015	Poso Canal at Valeria Ave	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP086	8/10/2015	San Joaquin River at Sack Dam	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP090	8/10/2015	Well MW-11-150	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP088	8/10/2015	Well MW-12-183	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP099	8/11/2015	Well MW-12-185	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP095	8/11/2015	Well MW-12-190	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP096	8/11/2015	Well MW-12-191	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP104	8/11/2015	Well MW-13-213	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP101	8/11/2015	Well MW-13-215	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP100	8/11/2015	Well MW-13-216	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP097	8/11/2015	Well PZ-R3-7	TEBUTHIURON	ug/l	<0.1	0.1	MWH/LCMSMS
SCP103	8/11/2015	Columbia Canal @ Terminus	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	TERBACIL	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2

Water Quality Monitoring for SJR Seepage Management

SCP100	8/11/2015	Well MW-13-216	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	TERBUTHYLAZINE	ug/l	<0.1	0.1	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	TRANS-NONACHLOR	ug/l	<0.05	0.05	EPA 525.2
SCP103	8/11/2015	Columbia Canal @ Terminus	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP087	8/10/2015	Poso Canal at Valeria Ave	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP086	8/10/2015	San Joaquin River at Sack Dam	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP090	8/10/2015	Well MW-11-150	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP088	8/10/2015	Well MW-12-183	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP099	8/11/2015	Well MW-12-185	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP095	8/11/2015	Well MW-12-190	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP096	8/11/2015	Well MW-12-191	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP104	8/11/2015	Well MW-13-213	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP101	8/11/2015	Well MW-13-215	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP100	8/11/2015	Well MW-13-216	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2
SCP097	8/11/2015	Well PZ-R3-7	TRIFLURALIN	ug/l	<0.1	0.1	EPA 525.2

Appendix C

Results of Inorganic Analyses and Physical Measurements

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP103	8/11/2015	Columbia Canal @ Terminus	ALKALINITY	mg/l	54.7		2	SM 2320B	> 20	NRWQC-CC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	ALKALINITY	mg/l	58		2	SM 2320B	> 20	NRWQC-CC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ALKALINITY	mg/l	51.4		2	SM 2320B	> 20	NRWQC-CC
SCP042	5/28/2013	Poso Canal at Valeria Ave	ALKALINITY	mg/l	88		2	SM 2320B	> 20	NRWQC-CC
SCP087	8/10/2015	Poso Canal at Valeria Ave	ALKALINITY	mg/l	121		2	SM 2320B	> 20	NRWQC-CC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ALKALINITY	mg/l	20.8		2	SM 2320B	> 20	NRWQC-CC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ALKALINITY	mg/l	18.2		2	SM 2320B	> 20	NRWQC-CC
SCP024	12/13/2012	San Joaquin River at Sack Dam	ALKALINITY	mg/l	69		2	SM 2320B	> 20	NRWQC-CC
SCP041	5/28/2013	San Joaquin River at Sack Dam	ALKALINITY	mg/l	79		2	SM 2320B	> 20	NRWQC-CC
SCP086	8/10/2015	San Joaquin River at Sack Dam	ALKALINITY	mg/l	25.5		2	SM 2320B	> 20	NRWQC-CC
SCP016	12/13/2012	Well MW-11-150	ALKALINITY	mg/l	120		2	SM 2320B	> 20	NRWQC-CC
SCP045	5/28/2013	Well MW-11-150	ALKALINITY	mg/l	100		2	SM 2320B	> 20	NRWQC-CC
SCP090	8/10/2015	Well MW-11-150	ALKALINITY	mg/l	104		2	SM 2320B	> 20	NRWQC-CC
SCP017	12/13/2012	Well MW-12-183	ALKALINITY	mg/l	130		2	SM 2320B	> 20	NRWQC-CC
SCP043	5/28/2013	Well MW-12-183	ALKALINITY	mg/l	140		2	SM 2320B	> 20	NRWQC-CC
SCP088	8/10/2015	Well MW-12-183	ALKALINITY	mg/l	127		2	SM 2320B	> 20	NRWQC-CC
SCP035	12/13/2012	Well MW-12-185	ALKALINITY	mg/l	60		2	SM 2320B	> 20	NRWQC-CC
SCP040	5/28/2013	Well MW-12-185	ALKALINITY	mg/l	61		2	SM 2320B	> 20	NRWQC-CC
SCP099	8/11/2015	Well MW-12-185	ALKALINITY	mg/l	120		2	SM 2320B	> 20	NRWQC-CC
SCP036	12/13/2012	Well MW-12-190	ALKALINITY	mg/l	83		2	SM 2320B	> 20	NRWQC-CC
SCP038	5/28/2013	Well MW-12-190	ALKALINITY	mg/l	68		2	SM 2320B	> 20	NRWQC-CC
SCP095	8/11/2015	Well MW-12-190	ALKALINITY	mg/l	62.4		2	SM 2320B	> 20	NRWQC-CC
SCP039	5/28/2013	Well MW-12-191	ALKALINITY	mg/l	64		2	SM 2320B	> 20	NRWQC-CC
SCP096	8/11/2015	Well MW-12-191	ALKALINITY	mg/l	55		2	SM 2320B	> 20	NRWQC-CC
SCP104	8/11/2015	Well MW-13-213	ALKALINITY	mg/l	88.5		2	SM 2320B	> 20	NRWQC-CC
SCP101	8/11/2015	Well MW-13-215	ALKALINITY	mg/l	93.8		2	SM 2320B	> 20	NRWQC-CC
SCP100	8/11/2015	Well MW-13-216	ALKALINITY	mg/l	138		2	SM 2320B	> 20	NRWQC-CC
SCP097	8/11/2015	Well PZ-R3-7	ALKALINITY	mg/l	97.6		2	SM 2320B	> 20	NRWQC-CC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	ALUMINUM	ug/l	350		20		< 87	NRWQC-CC
SCP042	5/28/2013	Poso Canal at Valeria Ave	ALUMINUM	ug/l	2200		20		< 87	NRWQC-CC
SCP024	12/13/2012	San Joaquin River at Sack Dam	ALUMINUM	ug/l	270		20		< 87	NRWQC-CC
SCP041	5/28/2013	San Joaquin River at Sack Dam	ALUMINUM	ug/l	540		20		< 87	NRWQC-CC
SCP016	12/13/2012	Well MW-11-150	ALUMINUM	ug/l	9700		1000		< 87	NRWQC-CC
SCP045	5/28/2013	Well MW-11-150	ALUMINUM	ug/l	3700		20		< 87	NRWQC-CC
SCP017	12/13/2012	Well MW-12-183	ALUMINUM	ug/l	220		20		< 87	NRWQC-CC
SCP043	5/28/2013	Well MW-12-183	ALUMINUM	ug/l	150		20		< 87	NRWQC-CC
SCP035	12/13/2012	Well MW-12-185	ALUMINUM	ug/l	23000		2000		< 87	NRWQC-CC
SCP040	5/28/2013	Well MW-12-185	ALUMINUM	ug/l	16000		200		< 87	NRWQC-CC
SCP036	12/13/2012	Well MW-12-190	ALUMINUM	ug/l	3500		200		< 87	NRWQC-CC
SCP038	5/28/2013	Well MW-12-190	ALUMINUM	ug/l	14000		200		< 87	NRWQC-CC
SCP039	5/28/2013	Well MW-12-191	ALUMINUM	ug/l	18000		200		< 87	NRWQC-CC
SCP103	8/11/2015	Columbia Canal @ Terminus	ALUMINUM (DISSOLVED)	ug/l	34.3		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP087	8/10/2015	Poso Canal at Valeria Ave	ALUMINUM (DISSOLVED)	ug/l	37.1		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ALUMINUM (DISSOLVED)	ug/l	27.4		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP086	8/10/2015	San Joaquin River at Sack Dam	ALUMINUM (DISSOLVED)	ug/l	24.5		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP090	8/10/2015	Well MW-11-150	ALUMINUM (DISSOLVED)	ug/l	22.4		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP088	8/10/2015	Well MW-12-183	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP099	8/11/2015	Well MW-12-185	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP095	8/11/2015	Well MW-12-190	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP096	8/11/2015	Well MW-12-191	ALUMINUM (DISSOLVED)	ug/l	32.3		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP104	8/11/2015	Well MW-13-213	ALUMINUM (DISSOLVED)	ug/l	194		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP101	8/11/2015	Well MW-13-215	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP100	8/11/2015	Well MW-13-216	ALUMINUM (DISSOLVED)	ug/l	48.2		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP097	8/11/2015	Well PZ-R3-7	ALUMINUM (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 87 ¹	FWAL-CC
SCP103	8/11/2015	Columbia Canal @ Terminus	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 1.36	NRWQC-CC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP042	5/28/2013	Poso Canal at Valeria Ave	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 1.51	NRWQC-CC
SCP087	8/10/2015	Poso Canal at Valeria Ave	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP024	12/13/2012	San Joaquin River at Sack Dam	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 0.78	NRWQC-CC
SCP041	5/28/2013	San Joaquin River at Sack Dam	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 1.31	NRWQC-CC
SCP086	8/10/2015	San Joaquin River at Sack Dam	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP016	12/13/2012	Well MW-11-150	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 4.76	NRWQC-CC
SCP045	5/28/2013	Well MW-11-150	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 4.35	NRWQC-CC
SCP090	8/10/2015	Well MW-11-150	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP017	12/13/2012	Well MW-12-183	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 4.61	NRWQC-CC
SCP043	5/28/2013	Well MW-12-183	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 4.60	NRWQC-CC

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP088	8/10/2015	Well MW-12-183	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP035	12/13/2012	Well MW-12-185	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 3.39	NRWQC-CC
SCP040	5/28/2013	Well MW-12-185	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 4.68	NRWQC-CC
SCP099	8/11/2015	Well MW-12-185	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP036	12/13/2012	Well MW-12-190	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 4.27	NRWQC-CC
SCP038	5/28/2013	Well MW-12-190	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 4.42	NRWQC-CC
SCP095	8/11/2015	Well MW-12-190	AMMONIA AS N	mg/l	< 0.5		0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP039	5/28/2013	Well MW-12-191	AMMONIA AS N	mg/l	< 0.50		0.5	EPA 350.1	< 3.95	NRWQC-CC
SCP096	8/11/2015	Well MW-13-213	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP104	8/11/2015	Well MW-13-215	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP101	8/11/2015	Well MW-13-216	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP100	8/11/2015	Well PZ-R3-7	AMMONIA AS N	mg/l	< 0.5	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP097	8/11/2015	Well MW-12-191	AMMONIA AS N	mg/l	0.66	L	0.5	EPA 350.1	< 1.94	NRWQC-CC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	ARSENIC	ug/l	2		0.5		< 10 ²	BP
SCP042	5/28/2013	Poso Canal at Valeria Ave	ARSENIC	ug/l	3.9		0.5		< 10 ²	BP
SCP024	12/13/2012	San Joaquin River at Sack Dam	ARSENIC	ug/l	1.6		0.5		< 10 ²	BP
SCP041	5/28/2013	San Joaquin River at Sack Dam	ARSENIC	ug/l	2.1		0.5		< 10 ²	BP
SCP016	12/13/2012	Well MW-11-150	ARSENIC	ug/l	5.7		0.5		< 10 ²	BP
SCP045	5/28/2013	Well MW-11-150	ARSENIC	ug/l	3.3		0.5		< 10 ²	BP
SCP017	12/13/2012	Well MW-12-183	ARSENIC	ug/l	3.7		0.5		< 10 ²	BP
SCP043	5/28/2013	Well MW-12-183	ARSENIC	ug/l	3.6		0.5		< 10 ²	BP
SCP035	12/13/2012	Well MW-12-185	ARSENIC	ug/l	26		0.5		< 10 ²	BP
SCP040	5/28/2013	Well MW-12-185	ARSENIC	ug/l	19		0.5		< 10 ²	BP
SCP036	12/13/2012	Well MW-12-190	ARSENIC	ug/l	3.3		0.5		< 10 ²	BP
SCP038	5/28/2013	Well MW-12-190	ARSENIC	ug/l	6.6		0.5		< 10 ²	BP
SCP039	5/28/2013	Well MW-12-191	ARSENIC	ug/l	6.7		0.5		< 10 ²	BP
SCP103	8/11/2015	Columbia Canal @ Terminus	ARSENIC (DISSOLVED)	ug/l	16.1		0.5	EPA 200.8	< 10 ³	BP
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ARSENIC (DISSOLVED)	ug/l	13.8		0.5	EPA 200.8	< 10 ³	BP
SCP087	8/10/2015	Poso Canal at Valeria Ave	ARSENIC (DISSOLVED)	ug/l	11.3		0.5	EPA 200.8	< 10 ³	BP
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ARSENIC (DISSOLVED)	ug/l	1.4		0.5	EPA 200.8	< 10	BP
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ARSENIC (DISSOLVED)	ug/l	1.5		0.5	EPA 200.8	< 10	BP
SCP086	8/10/2015	San Joaquin River at Sack Dam	ARSENIC (DISSOLVED)	ug/l	1.5		0.5	EPA 200.8	< 10	BP
SCP090	8/10/2015	Well MW-11-150	ARSENIC (DISSOLVED)	ug/l	2		0.5	EPA 200.8	< 10	BP
SCP088	8/10/2015	Well MW-12-183	ARSENIC (DISSOLVED)	ug/l	2.6		0.5	EPA 200.8	< 10	BP
SCP099	8/11/2015	Well MW-12-185	ARSENIC (DISSOLVED)	ug/l	2.3		0.5	EPA 200.8	< 10	BP
SCP095	8/11/2015	Well MW-12-190	ARSENIC (DISSOLVED)	ug/l	1.4		0.5	EPA 200.8	< 10	BP
SCP096	8/11/2015	Well MW-12-191	ARSENIC (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 10	BP
SCP104	8/11/2015	Well MW-13-213	ARSENIC (DISSOLVED)	ug/l	1		0.5	EPA 200.8	< 10	BP
SCP101	8/11/2015	Well MW-13-215	ARSENIC (DISSOLVED)	ug/l	4.3		0.5	EPA 200.8	< 10	BP
SCP100	8/11/2015	Well MW-13-216	ARSENIC (DISSOLVED)	ug/l	4		0.5	EPA 200.8	< 10	BP
SCP097	8/11/2015	Well PZ-R3-7	ARSENIC (DISSOLVED)	ug/l	0.89		0.5	EPA 200.8	< 10	BP
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BICARBONATE AS CaCO3	mg/l	18.2		2	SM 2320B	< 92	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BICARBONATE AS CaCO3	mg/l	20.8		2	SM 2320B	< 92	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	BICARBONATE AS CaCO3	mg/l	25.5		2	SM 2320B	< 92	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BICARBONATE AS CaCO3	mg/l	51.4		2	SM 2320B	< 92	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	BICARBONATE AS CaCO3	mg/l	54.7		2	SM 2320B	< 92	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	BICARBONATE AS CaCO3	mg/l	55		2	SM 2320B	< 92	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	BICARBONATE AS CaCO3	mg/l	58		2	SM 2320B	< 92	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	BICARBONATE AS CaCO3	mg/l	60		2	SM 2320B	< 92	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	BICARBONATE AS CaCO3	mg/l	61		2	SM 2320B	< 92	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	BICARBONATE AS CaCO3	mg/l	62.4		2	SM 2320B	< 92	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	BICARBONATE AS CaCO3	mg/l	64		2	SM 2320B	< 92	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	BICARBONATE AS CaCO3	mg/l	68		2	SM 2320B	< 92	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	BICARBONATE AS CaCO3	mg/l	69		2	SM 2320B	< 92	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	BICARBONATE AS CaCO3	mg/l	79		2	SM 2320B	< 92	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	BICARBONATE AS CaCO3	mg/l	83		2	SM 2320B	< 92	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	BICARBONATE AS CaCO3	mg/l	88		2	SM 2320B	< 92	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	BICARBONATE AS CaCO3	mg/l	88.5		2	SM 2320B	< 92	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	BICARBONATE AS CaCO3	mg/l	93.8		2	SM 2320B	< 92	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	BICARBONATE AS CaCO3	mg/l	97.6		2	SM 2320B	< 92	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	BICARBONATE AS CaCO3	mg/l	100		2	SM 2320B	< 92	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	BICARBONATE AS CaCO3	mg/l	104		2	SM 2320B	< 92	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	BICARBONATE AS CaCO3	mg/l	120		2	SM 2320B	< 92	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	BICARBONATE AS CaCO3	mg/l	120		2	SM 2320B	< 92	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	BICARBONATE AS CaCO3	mg/l	121		2	SM 2320B	< 92	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	BICARBONATE AS CaCO3	mg/l	127		2	SM 2320B	< 92	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	BICARBONATE AS CaCO3	mg/l	130		2	SM 2320B	< 92	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	BICARBONATE AS CaCO3	mg/l	138		2	SM 2320B	< 92	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	BICARBONATE AS CaCO3	mg/l	140		2	SM 2320B	< 92	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	BORON	ug/l	150		25		< 700	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	BORON	ug/l	260		25		< 700	IRRIG SUIT

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP024	12/13/2012	San Joaquin River at Sack Dam	BORON	ug/l	320		25		< 700	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	BORON	ug/l	250		25		< 700	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	BORON	ug/l	210		25		< 700	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	BORON	ug/l	220		25		< 700	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	BORON	ug/l	230		25		< 700	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	BORON	ug/l	220		25		< 700	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	BORON	ug/l	150		25		< 700	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	BORON	ug/l	210		25		< 700	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	BORON	ug/l	240		25		< 700	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	BORON	ug/l	250		25		< 700	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	BORON	ug/l	250		25		< 700	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	BORON (DISSOLVED)	ug/l	181		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	BORON (DISSOLVED)	ug/l	144		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	BORON (DISSOLVED)	ug/l	175		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	BORON (DISSOLVED)	ug/l	47.8		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	BORON (DISSOLVED)	ug/l	45.4		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	BORON (DISSOLVED)	ug/l	64		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	BORON (DISSOLVED)	ug/l	214		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	BORON (DISSOLVED)	ug/l	217		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	BORON (DISSOLVED)	ug/l	336		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	BORON (DISSOLVED)	ug/l	180		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	BORON (DISSOLVED)	ug/l	184		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	BORON (DISSOLVED)	ug/l	343		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	BORON (DISSOLVED)	ug/l	238		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	BORON (DISSOLVED)	ug/l	194		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	BORON (DISSOLVED)	ug/l	240		25	EPA 200.7	700 ¹	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	CADMIUM	ug/l	< 0.50		0.5		< 0.15	NRWQC-CC
SCP042	5/28/2013	Poso Canal at Valeria Ave	CADMIUM	ug/l	< 0.50		0.5		< 0.39	NRWQC-CC
SCP024	12/13/2012	San Joaquin River at Sack Dam	CADMIUM	ug/l	< 0.10	T	0.1		< 0.34	NRWQC-CC
SCP041	5/28/2013	San Joaquin River at Sack Dam	CADMIUM	ug/l	< 0.50		0.5		< 0.32	NRWQC-CC
SCP016	12/13/2012	Well MW-11-150	CADMIUM	ug/l	< 0.1	T	0.1		< 0.36	NRWQC-CC
SCP045	5/28/2013	Well MW-11-150	CADMIUM	ug/l	< 0.10		0.1		< 0.32	NRWQC-CC
SCP017	12/13/2012	Well MW-12-183	CADMIUM	ug/l	< 0.1	T	0.1		< 0.36	NRWQC-CC
SCP043	5/28/2013	Well MW-12-183	CADMIUM	ug/l	< 0.50		0.5		< 0.4	NRWQC-CC
SCP035	12/13/2012	Well MW-12-185	CADMIUM	ug/l	< 0.20	T	0.2		< 0.33	NRWQC-CC
SCP040	5/28/2013	Well MW-12-185	CADMIUM	ug/l	< 0.10		0.1		< 0.36	NRWQC-CC
SCP036	12/13/2012	Well MW-12-190	CADMIUM	ug/l	< 0.20	T	0.2		< 0.23	NRWQC-CC
SCP038	5/28/2013	Well MW-12-190	CADMIUM	ug/l	< 0.10		0.1		< 0.29	NRWQC-CC
SCP039	5/28/2013	Well MW-12-191	CADMIUM	ug/l	< 0.10		0.1		< 0.27	NRWQC-CC
SCP103	8/11/2015	Columbia Canal @ Terminus	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 0.58	CTR-HDCC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 0.52	CTR-HDCC
SCP087	8/10/2015	Poso Canal at Valeria Ave	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 2.61	CTR-HDCC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 0.58	CTR-HDCC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 0.52	CTR-HDCC
SCP086	8/10/2015	San Joaquin River at Sack Dam	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 0.80	CTR-HDCC
SCP090	8/10/2015	Well MW-11-150	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 3.28	CTR-HDCC
SCP088	8/10/2015	Well MW-12-183	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 3.76	CTR-HDCC
SCP099	8/11/2015	Well MW-12-185	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 3.57	CTR-HDCC
SCP095	8/11/2015	Well MW-12-190	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 1.53	CTR-HDCC
SCP096	8/11/2015	Well MW-12-191	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 1.79	CTR-HDCC
SCP104	8/11/2015	Well MW-13-213	CADMIUM (DISSOLVED)	ug/l	10.3 ⁴		0.1	EPA 1638	< 2.84	CTR-HDCC
SCP101	8/11/2015	Well MW-13-215	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 2.15	CTR-HDCC
SCP100	8/11/2015	Well MW-13-216	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 3.14	CTR-HDCC
SCP097	8/11/2015	Well PZ-R3-7	CADMIUM (DISSOLVED)	ug/l	< 0.1		0.1	EPA 1638	< 2.78	CTR-HDCC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	CALCIUM	mg/l	10		0.05		-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	CALCIUM	mg/l	35		0.05		-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	CALCIUM	mg/l	31		1		-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	CALCIUM	mg/l	26		0.05		-	-
SCP016	12/13/2012	Well MW-11-150	CALCIUM	mg/l	37		1		-	-
SCP045	5/28/2013	Well MW-11-150	CALCIUM	mg/l	31		0.05		-	-
SCP017	12/13/2012	Well MW-12-183	CALCIUM	mg/l	43		1		-	-
SCP043	5/28/2013	Well MW-12-183	CALCIUM	mg/l	47		0.05		-	-
SCP035	12/13/2012	Well MW-12-185	CALCIUM	mg/l	22		0.05		-	-
SCP040	5/28/2013	Well MW-12-185	CALCIUM	mg/l	26		0.05		-	-
SCP036	12/13/2012	Well MW-12-190	CALCIUM	mg/l	18		0.05		-	-
SCP038	5/28/2013	Well MW-12-190	CALCIUM	mg/l	21		0.05		-	-
SCP039	5/28/2013	Well MW-12-191	CALCIUM	mg/l	16		0.05		-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	CALCIUM (DISSOLVED)	mg/l	4.16		0.05	EPA 200.7	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CALCIUM (DISSOLVED)	mg/l	3.98		0.05	EPA 200.7	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	CALCIUM (DISSOLVED)	mg/l	34.6		0.05	EPA 200.7	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CALCIUM (DISSOLVED)	mg/l	4.12		0.05	EPA 200.7	-	-

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CALCIUM (DISSOLVED)	mg/l	3.95		0.05	EPA 200.7	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	CALCIUM (DISSOLVED)	mg/l	5.92		0.05	EPA 200.7	-	-
SCP090	8/10/2015	Well MW-11-150	CALCIUM (DISSOLVED)	mg/l	44.2		0.05	EPA 200.7	-	-
SCP088	8/10/2015	Well MW-12-183	CALCIUM (DISSOLVED)	mg/l	57		0.05	EPA 200.7	-	-
SCP099	8/11/2015	Well MW-12-185	CALCIUM (DISSOLVED)	mg/l	39.8		0.05	EPA 200.7	-	-
SCP095	8/11/2015	Well MW-12-190	CALCIUM (DISSOLVED)	mg/l	14.3		0.05	EPA 200.7	-	-
SCP096	8/11/2015	Well MW-12-191	CALCIUM (DISSOLVED)	mg/l	16.4		0.05	EPA 200.7	-	-
SCP104	8/11/2015	Well MW-13-213	CALCIUM (DISSOLVED)	mg/l	39.1		0.05	EPA 200.7	-	-
SCP101	8/11/2015	Well MW-13-215	CALCIUM (DISSOLVED)	mg/l	27.7		0.05	EPA 200.7	-	-
SCP100	8/11/2015	Well MW-13-216	CALCIUM (DISSOLVED)	mg/l	49.8		0.05	EPA 200.7	-	-
SCP097	8/11/2015	Well PZ-R3-7	CALCIUM (DISSOLVED)	mg/l	27.5		0.05	EPA 200.7	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP016	12/13/2012	Well MW-11-150	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP045	5/28/2013	Well MW-11-150	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP090	8/10/2015	Well MW-11-150	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP017	12/13/2012	Well MW-12-183	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP043	5/28/2013	Well MW-12-183	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP088	8/10/2015	Well MW-12-183	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP035	12/13/2012	Well MW-12-185	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP040	5/28/2013	Well MW-12-185	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP099	8/11/2015	Well MW-12-185	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP036	12/13/2012	Well MW-12-190	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP038	5/28/2013	Well MW-12-190	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP095	8/11/2015	Well MW-12-190	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP039	5/28/2013	Well MW-12-191	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP096	8/11/2015	Well MW-12-191	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP104	8/11/2015	Well MW-13-213	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP101	8/11/2015	Well MW-13-215	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP100	8/11/2015	Well MW-13-216	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP097	8/11/2015	Well PZ-R3-7	CARBONATE AS CaCO3	mg/l	< 2		2	SM 2320B	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	CHLORIDE	mg/l	68		5	EPA 300.0	< 106	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	CHLORIDE	mg/l	56		2	EPA 300.0	< 106	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	CHLORIDE	mg/l	72		2	EPA 300.0	< 106	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	CHLORIDE	mg/l	69		2	EPA 300.0	< 106	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	CHLORIDE	mg/l	55		2	EPA 300.0	< 106	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	CHLORIDE	mg/l	44.4		1	EPA 300.0	< 106	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	CHLORIDE	mg/l	47		1	EPA 300.0	< 106	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	CHLORIDE	mg/l	31.9		1	EPA 300.0	< 106	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	CHLORIDE	mg/l	95		5	EPA 300.0	< 106	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	CHLORIDE	mg/l	117		5	EPA 300.0	< 106	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	CHLORIDE	mg/l	6.1		1	EPA 300.0	< 106	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	CHLORIDE	mg/l	5.5		1	EPA 300.0	< 106	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	CHLORIDE	mg/l	87		2	EPA 300.0	< 106	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	CHLORIDE	mg/l	12.4		1	EPA 300.0	< 106	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	CHLORIDE	mg/l	72		2	EPA 300.0	< 106	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	CHLORIDE	mg/l	115		5	EPA 300.0	< 106	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	CHLORIDE	mg/l	98		5	EPA 300.0	< 106	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	CHLORIDE	mg/l	131		5	EPA 300.0	< 106	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	CHLORIDE	mg/l	63		2	EPA 300.0	< 106	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	CHLORIDE	mg/l	151		5	EPA 300.0	< 106	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	CHLORIDE	mg/l	59		2	EPA 300.0	< 106	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	CHLORIDE	mg/l	55.4		2	EPA 300.0	< 106	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	CHLORIDE	mg/l	56		2	EPA 300.0	< 106	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	CHLORIDE	mg/l	64.4		2	EPA 300.0	< 106	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	CHLORIDE	mg/l	112		5	EPA 300.0	< 106	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	CHLORIDE	mg/l	92.6		5	EPA 300.0	< 106	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	CHLORIDE	mg/l	73.6		2	EPA 300.0	< 106	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	CHLORIDE	mg/l	103		5	EPA 300.0	< 106	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	COPPER	ug/l	2.1		0.5	EPA 300.0	< 4.8	CTR-HDCC
SCP042	5/28/2013	Poso Canal at Valeria Ave	COPPER	ug/l	4.2		0.5	EPA 300.0	< 10	BP
SCP024	12/13/2012	San Joaquin River at Sack Dam	COPPER	ug/l	1.4		0.5	EPA 300.0	< 10	BP
SCP041	5/28/2013	San Joaquin River at Sack Dam	COPPER	ug/l	2.1		0.5	EPA 300.0	< 10	BP
SCP016	12/13/2012	Well MW-11-150	COPPER	ug/l	9.10		0.5	EPA 300.0	< 10	BP
SCP045	5/28/2013	Well MW-11-150	COPPER	ug/l	4.2		0.5	EPA 300.0	< 10	BP

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP017	12/13/2012	Well MW-12-183	COPPER	ug/l	0.8		0.5	EPA 300.0	< 10	BP
SCP043	5/28/2013	Well MW-12-183	COPPER	ug/l	0.81		0.5	EPA 300.0	< 10	BP
SCP035	12/13/2012	Well MW-12-185	COPPER	ug/l	14		0.5	EPA 300.0	< 10	BP
SCP040	5/28/2013	Well MW-12-185	COPPER	ug/l	9.1		0.5	EPA 300.0	< 10	BP
SCP036	12/13/2012	Well MW-12-190	COPPER	ug/l	3.80		0.5	EPA 300.0	< 7.5	CTR-HDCC
SCP038	5/28/2013	Well MW-12-190	COPPER	ug/l	7.5		0.5	EPA 300.0	< 10	BP
SCP039	5/28/2013	Well MW-12-191	COPPER	ug/l	10		0.5	EPA 300.0	< 9.5	CTR-HDCC
SCP103	8/11/2015	Columbia Canal @ Terminus	COPPER (DISSOLVED)	ug/l	3.2		0.5	EPA 200.8	< 1.87	CTR-HDCC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 1.67	CTR-HDCC
SCP087	8/10/2015	Poso Canal at Valeria Ave	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 10.69	CTR-HDCC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 1.87	CTR-HDCC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 1.67	CTR-HDCC
SCP086	8/10/2015	San Joaquin River at Sack Dam	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 2.74	CTR-HDCC
SCP090	8/10/2015	Well MW-11-150	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 13.95	CTR-HDCC
SCP088	8/10/2015	Well MW-12-183	COPPER (DISSOLVED)	ug/l	0.52		0.5	EPA 200.8	< 16.33	CTR-HDCC
SCP099	8/11/2015	Well MW-12-185	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 15.36	CTR-HDCC
SCP095	8/11/2015	Well MW-12-190	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 5.79	CTR-HDCC
SCP096	8/11/2015	Well MW-12-191	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 6.92	CTR-HDCC
SCP104	8/11/2015	Well MW-13-213	COPPER (DISSOLVED)	ug/l	2.8		0.5	EPA 200.8	< 11.79	CTR-HDCC
SCP101	8/11/2015	Well MW-13-215	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 8.57	CTR-HDCC
SCP100	8/11/2015	Well MW-13-216	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 13.24	CTR-HDCC
SCP097	8/11/2015	Well PZ-R3-7	COPPER (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 11.50	CTR-HDCC
SCP103	8/11/2015	Columbia Canal @ Terminus	Electrical Conductivity	µS/cm	359.00		± 0.5%	YSI Sonde	< 500	P&L
SCP037	5/28/2013	Columbia Canal at Eastside Drive	Electrical Conductivity	µS/cm	313		± 0.5%	YSI Sonde	< 500	P&L
SCP094	8/11/2015	Columbia Canal at Eastside Drive	Electrical Conductivity	µS/cm	228.00		± 0.5%	YSI Sonde	< 500	P&L
SCP042	5/28/2013	Poso Canal at Valeria Ave	Electrical Conductivity	µS/cm	621 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP087	8/10/2015	Poso Canal at Valeria Ave	Electrical Conductivity	µS/cm	856 ⁶		± 0.5%	YSI Sonde	< 500	P&L
SCP093	8/11/2015	San Joaquin River @ MW-13-210	Electrical Conductivity	µS/cm	79.00		± 0.5%	YSI Sonde	< 500	P&L
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	Electrical Conductivity	µS/cm	84.00		± 0.5%	YSI Sonde	< 500	P&L
SCP086	8/10/2015	San Joaquin River at Sack Dam	Electrical Conductivity	µS/cm	135.00		± 0.5%	YSI Sonde	< 500	P&L
SCP024	12/13/2012	San Joaquin River at Sack Dam	Electrical Conductivity	µS/cm	575 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP041	5/28/2013	San Joaquin River at Sack Dam	Electrical Conductivity	µS/cm	532 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP016	12/13/2012	Well MW-11-150	Electrical Conductivity	µS/cm	524 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP045	5/28/2013	Well MW-11-150	Electrical Conductivity	µS/cm	524 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP017	12/13/2012	Well MW-12-183	Electrical Conductivity	µS/cm	605 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP043	5/28/2013	Well MW-12-183	Electrical Conductivity	µS/cm	633 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP035	12/13/2012	Well MW-12-185	Electrical Conductivity	µS/cm	416		± 0.5%	YSI Sonde	< 500	P&L
SCP040	5/28/2013	Well MW-12-185	Electrical Conductivity	µS/cm	424		± 0.5%	YSI Sonde	< 500	P&L
SCP036	12/13/2012	Well MW-12-190	Electrical Conductivity	µS/cm	526 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP038	5/28/2013	Well MW-12-190	Electrical Conductivity	µS/cm	439		± 0.5%	YSI Sonde	< 500	P&L
SCP039	5/28/2013	Well MW-12-191	Electrical Conductivity	µS/cm	505 ⁵		± 0.5%	YSI Sonde	< 500	P&L
SCP103	8/11/2015	Columbia Canal @ Terminus	HARDNESS	N/A	16		-	Calculated	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	HARDNESS	mg/l	46		-	Calculated	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	HARDNESS	N/A	14		-	Calculated	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	HARDNESS	mg/l	161		-	Calculated	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	HARDNESS	N/A	123		-	Calculated	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	HARDNESS	N/A	16		-	Calculated	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	HARDNESS	N/A	14		-	Calculated	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	HARDNESS	mg/l	135		-	Calculated	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	HARDNESS	mg/l	127		-	Calculated	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	HARDNESS	N/A	25		-	Calculated	-	-
SCP016	12/13/2012	Well MW-11-150	HARDNESS	mg/l	146		-	Calculated	-	-
SCP045	5/28/2013	Well MW-11-150	HARDNESS	mg/l	127		-	Calculated	-	-
SCP090	8/10/2015	Well MW-11-150	HARDNESS	N/A	168		-	Calculated	-	-
SCP017	12/13/2012	Well MW-12-183	HARDNESS	mg/l	148		-	Calculated	-	-
SCP043	5/28/2013	Well MW-12-183	HARDNESS	mg/l	171		-	Calculated	-	-
SCP088	8/10/2015	Well MW-12-183	HARDNESS	N/A	202		-	Calculated	-	-
SCP035	12/13/2012	Well MW-12-185	HARDNESS	mg/l	133		-	Calculated	-	-
SCP040	5/28/2013	Well MW-12-185	HARDNESS	mg/l	147		-	Calculated	-	-
SCP099	8/11/2015	Well MW-12-185	HARDNESS	N/A	188		-	Calculated	-	-
SCP036	12/13/2012	Well MW-12-190	HARDNESS	mg/l	78		-	Calculated	-	-
SCP038	5/28/2013	Well MW-12-190	HARDNESS	mg/l	110		-	Calculated	-	-
SCP095	8/11/2015	Well MW-12-190	HARDNESS	N/A	60		-	Calculated	-	-
SCP039	5/28/2013	Well MW-12-191	HARDNESS	mg/l	102		-	Calculated	-	-
SCP096	8/11/2015	Well MW-12-191	HARDNESS	N/A	74		-	Calculated	-	-
SCP104	8/11/2015	Well MW-13-213	HARDNESS	N/A	138		-	Calculated	-	-
SCP101	8/11/2015	Well MW-13-215	HARDNESS	N/A	95		-	Calculated	-	-
SCP100	8/11/2015	Well MW-13-216	HARDNESS	N/A	158		-	Calculated	-	-
SCP097	8/11/2015	Well PZ-R3-7	HARDNESS	N/A	134		-	Calculated	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	LEAD	ug/l	0.45		0.2		< 1.2	CTR-HDCC
SCP042	5/28/2013	Poso Canal at Valeria Ave	LEAD	ug/l	1.2		0.2		< 5.8	CTR-HDCC
SCP024	12/13/2012	San Joaquin River at Sack Dam	LEAD	ug/l	0.23		0.2		< 4.7	CTR-HDCC

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP041	5/28/2013	San Joaquin River at Sack Dam	LEAD	ug/l	0.35		0.2		< 4.3	CTR-HDCC
SCP016	12/13/2012	Well MW-11-150	LEAD	ug/l	3.6		0.2		< 5.2	CTR-HDCC
SCP045	5/28/2013	Well MW-11-150	LEAD	ug/l	1.4		0.2		< 4.3	CTR-HDCC
SCP017	12/13/2012	Well MW-12-183	LEAD	ug/l	< 0.2		0.2		< 5.2	CTR-HDCC
SCP043	5/28/2013	Well MW-12-183	LEAD	ug/l	< 0.20		0.2		< 6.3	CTR-HDCC
SCP035	12/13/2012	Well MW-12-185	LEAD	ug/l	6.8		0.2		< 4.6	CTR-HDCC
SCP040	5/28/2013	Well MW-12-185	LEAD	ug/l	4.6		0.2		< 5.2	CTR-HDCC
SCP036	12/13/2012	Well MW-12-190	LEAD	ug/l	2.5		0.2		< 2.3	CTR-HDCC
SCP038	5/28/2013	Well MW-12-190	LEAD	ug/l	4.9		0.2		< 3.6	CTR-HDCC
SCP039	5/28/2013	Well MW-12-191	LEAD	ug/l	6.7		0.2		< 3.3	CTR-HDCC
SCP103	8/11/2015	Columbia Canal @ Terminus	LEAD (DISSOLVED)	ug/l	0.21		0.2	EPA 200.8	< 0.33	CTR-HDCC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 0.28	CTR-HDCC
SCP087	8/10/2015	Poso Canal at Valeria Ave	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 3.15	CTR-HDCC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 0.33	CTR-HDCC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 0.28	CTR-HDCC
SCP086	8/10/2015	San Joaquin River at Sack Dam	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 0.54	CTR-HDCC
SCP090	8/10/2015	Well MW-11-150	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 4.41	CTR-HDCC
SCP088	8/10/2015	Well MW-12-183	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 5.36	CTR-HDCC
SCP099	8/11/2015	Well MW-12-185	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 4.97	CTR-HDCC
SCP095	8/11/2015	Well MW-12-190	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 1.44	CTR-HDCC
SCP096	8/11/2015	Well MW-12-191	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 1.81	CTR-HDCC
SCP104	8/11/2015	Well MW-13-213	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 3.57	CTR-HDCC
SCP101	8/11/2015	Well MW-13-215	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 2.38	CTR-HDCC
SCP100	8/11/2015	Well MW-13-216	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 4.13	CTR-HDCC
SCP097	8/11/2015	Well PZ-R3-7	LEAD (DISSOLVED)	ug/l	< 0.2		0.2	EPA 200.8	< 3.46	CTR-HDCC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	MAGNESIUM	mg/l	5.2		0.025		-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	MAGNESIUM	mg/l	18		0.025		-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	MAGNESIUM	mg/l	14		0.025		-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	MAGNESIUM	mg/l	15		0.025		-	-
SCP016	12/13/2012	Well MW-11-150	MAGNESIUM	mg/l	13		0.025		-	-
SCP045	5/28/2013	Well MW-11-150	MAGNESIUM	mg/l	12		0.025		-	-
SCP017	12/13/2012	Well MW-12-183	MAGNESIUM	mg/l	9.9		0.025		-	-
SCP043	5/28/2013	Well MW-12-183	MAGNESIUM	mg/l	13		0.025		-	-
SCP035	12/13/2012	Well MW-12-185	MAGNESIUM	mg/l	19		0.025		-	-
SCP040	5/28/2013	Well MW-12-185	MAGNESIUM	mg/l	20		0.025		-	-
SCP036	12/13/2012	Well MW-12-190	MAGNESIUM	mg/l	8.1		0.025		-	-
SCP038	5/28/2013	Well MW-12-190	MAGNESIUM	mg/l	14		0.025		-	-
SCP039	5/28/2013	Well MW-12-191	MAGNESIUM	mg/l	15		0.025		-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	MAGNESIUM (DISSOLVED)	mg/l	1.31		0.025	EPA 200.7	< 250	P&L
SCP094	8/11/2015	Columbia Canal at Eastside Drive	MAGNESIUM (DISSOLVED)	mg/l	0.92		0.025	EPA 200.7	< 250	P&L
SCP087	8/10/2015	Poso Canal at Valeria Ave	MAGNESIUM (DISSOLVED)	mg/l	8.91		0.025	EPA 200.7	< 250	P&L
SCP093	8/11/2015	San Joaquin River @ MW-13-210	MAGNESIUM (DISSOLVED)	mg/l	1.48		0.025	EPA 200.7	< 250	P&L
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	MAGNESIUM (DISSOLVED)	mg/l	0.99		0.025	EPA 200.7	< 250	P&L
SCP086	8/10/2015	San Joaquin River at Sack Dam	MAGNESIUM (DISSOLVED)	mg/l	2.52		0.025	EPA 200.7	< 250	P&L
SCP090	8/10/2015	Well MW-11-150	MAGNESIUM (DISSOLVED)	mg/l	14.1		0.025	EPA 200.7	< 250	P&L
SCP088	8/10/2015	Well MW-12-183	MAGNESIUM (DISSOLVED)	mg/l	14.4		0.025	EPA 200.7	< 250	P&L
SCP099	8/11/2015	Well MW-12-185	MAGNESIUM (DISSOLVED)	mg/l	21.5		0.025	EPA 200.7	< 250	P&L
SCP095	8/11/2015	Well MW-12-190	MAGNESIUM (DISSOLVED)	mg/l	6.02		0.025	EPA 200.7	< 250	P&L
SCP096	8/11/2015	Well MW-12-191	MAGNESIUM (DISSOLVED)	mg/l	7.94		0.025	EPA 200.7	< 250	P&L
SCP104	8/11/2015	Well MW-13-213	MAGNESIUM (DISSOLVED)	mg/l	9.75		0.025	EPA 200.7	< 250	P&L
SCP101	8/11/2015	Well MW-13-215	MAGNESIUM (DISSOLVED)	mg/l	6.24		0.025	EPA 200.7	< 250	P&L
SCP100	8/11/2015	Well MW-13-216	MAGNESIUM (DISSOLVED)	mg/l	8.24		0.025	EPA 200.7	< 250	P&L
SCP097	8/11/2015	Well PZ-R3-7	MAGNESIUM (DISSOLVED)	mg/l	15.9		0.025	EPA 200.7	< 250	P&L
SCP103	8/11/2015	Columbia Canal @ Terminus	MERCURY	ng/l	5.79		2	EPA 1631E	< 50	CTR-HH
SCP037	5/28/2013	Columbia Canal at Eastside Drive	MERCURY	ng/l	< 2		2	EPA 1631E	< 50	CTR-HH
SCP094	8/11/2015	Columbia Canal at Eastside Drive	MERCURY	ng/l	< 2		2	EPA 1631E	< 50	CTR-HH
SCP042	5/28/2013	Poso Canal at Valeria Ave	MERCURY	ng/l	15		2	EPA 1631E	< 50	CTR-HH
SCP087	8/10/2015	Poso Canal at Valeria Ave	MERCURY	ng/l	4.15		2	EPA 1631E	< 50	CTR-HH
SCP093	8/11/2015	San Joaquin River @ MW-13-210	MERCURY	ng/l	2.71		2	EPA 1631E	< 50	CTR-HH
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	MERCURY	ng/l	2.66		2	EPA 1631E	< 50	CTR-HH
SCP024	12/13/2012	San Joaquin River at Sack Dam	MERCURY	ng/l	2.4		2	EPA 1631E	< 50	CTR-HH
SCP041	5/28/2013	San Joaquin River at Sack Dam	MERCURY	ng/l	3.8		2	EPA 1631E	< 50	CTR-HH
SCP086	8/10/2015	San Joaquin River at Sack Dam	MERCURY	ng/l	3.05		2	EPA 1631E	< 50	CTR-HH
SCP016	12/13/2012	Well MW-11-150	MERCURY	ng/l	3		2	EPA 1631E	< 50	CTR-HH
SCP045	5/28/2013	Well MW-11-150	MERCURY	ng/l	9.7		2	EPA 1631E	< 50	CTR-HH
SCP090	8/10/2015	Well MW-11-150	MERCURY	ng/l	39.8		20	EPA 1631E	< 50	CTR-HH
SCP017	12/13/2012	Well MW-12-183	MERCURY	ng/l	2.1		2	EPA 1631E	< 50	CTR-HH
SCP043	5/28/2013	Well MW-12-183	MERCURY	ng/l	2.2		2	EPA 1631E	< 50	CTR-HH
SCP088	8/10/2015	Well MW-12-183	MERCURY	ng/l	15.6		10	EPA 1631E	< 50	CTR-HH
SCP035	12/13/2012	Well MW-12-185	MERCURY	ng/l	23		10	EPA 1631E	< 50	CTR-HH
SCP040	5/28/2013	Well MW-12-185	MERCURY	ng/l	16		2	EPA 1631E	< 50	CTR-HH
SCP099	8/11/2015	Well MW-12-185	MERCURY	ng/l	< 40		40	EPA 1631E	< 50	CTR-HH
SCP036	12/13/2012	Well MW-12-190	MERCURY	ng/l	< 10		10	EPA 1631E	< 50	CTR-HH

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP038	5/28/2013	Well MW-12-190	MERCURY	ng/l	10		2	EPA 1631E	< 50	CTR-HH
SCP095	8/11/2015	Well MW-12-190	MERCURY	ng/l	< 100		100	EPA 1631E	< 50	CTR-HH
SCP039	5/28/2013	Well MW-12-191	MERCURY	ng/l	16		2	EPA 1631E	< 50	CTR-HH
SCP096	8/11/2015	Well MW-12-191	MERCURY	ng/l	241		100	EPA 1631E	< 50	CTR-HH
SCP104	8/11/2015	Well MW-13-213	MERCURY	ng/l	5080 ⁷		400	EPA 1631E	< 50	CTR-HH
SCP101	8/11/2015	Well MW-13-215	MERCURY	ng/l	62.5		40	EPA 1631E	< 50	CTR-HH
SCP100	8/11/2015	Well MW-13-216	MERCURY	ng/l	< 20		20	EPA 1631E	< 50	CTR-HH
SCP097	8/11/2015	Well PZ-R3-7	MERCURY	ng/l	< 2		2	EPA 1631E	< 50	CTR-HH
SCP037	5/28/2013	Columbia Canal at Eastside Drive	MOLYBDENUM	ug/l	2.5		0.5		< 10	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	MOLYBDENUM	ug/l	2.2		0.5		< 10	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	MOLYBDENUM	ug/l	2.9		0.5		< 10	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	MOLYBDENUM	ug/l	1.8		0.5		< 19	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	MOLYBDENUM	ug/l	4.1		0.5		< 10	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	MOLYBDENUM	ug/l	3.4		0.5		< 10	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	MOLYBDENUM	ug/l	7.7		0.5		< 10	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	MOLYBDENUM	ug/l	5.3		0.5		< 10	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	MOLYBDENUM	ug/l	3.2		0.5		< 10	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	MOLYBDENUM	ug/l	2.9		0.5		< 10	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	MOLYBDENUM	ug/l	1		0.5		< 10	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	MOLYBDENUM	ug/l	1.8		0.5		< 10	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	MOLYBDENUM	ug/l	5.7		0.5		< 10	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	MOLYBDENUM (DISSOLVED)	ug/l	3.7		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	MOLYBDENUM (DISSOLVED)	ug/l	2.9	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	MOLYBDENUM (DISSOLVED)	ug/l	5.8	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	MOLYBDENUM (DISSOLVED)	ug/l	1.7	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	MOLYBDENUM (DISSOLVED)	ug/l	1.9		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	MOLYBDENUM (DISSOLVED)	ug/l	1.9	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	MOLYBDENUM (DISSOLVED)	ug/l	2.7	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	MOLYBDENUM (DISSOLVED)	ug/l	4.4	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	MOLYBDENUM (DISSOLVED)	ug/l	2.3		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	MOLYBDENUM (DISSOLVED)	ug/l	2.4	L	0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	MOLYBDENUM (DISSOLVED)	ug/l	4.7		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	MOLYBDENUM (DISSOLVED)	ug/l	3.3		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	MOLYBDENUM (DISSOLVED)	ug/l	1.1		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	MOLYBDENUM (DISSOLVED)	ug/l	2.9		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	MOLYBDENUM (DISSOLVED)	ug/l	4		0.5	EPA 200.8	< 10 ⁻¹	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	NICKEL	ug/l	0.6		0.5		< 27	CTR-HDCC
SCP042	5/28/2013	Poso Canal at Valeria Ave	NICKEL	ug/l	5.4		0.5		< 78	CTR-HDCC
SCP024	12/13/2012	San Joaquin River at Sack Dam	NICKEL	ug/l	1.3		0.5		< 67	CTR-HDCC
SCP041	5/28/2013	San Joaquin River at Sack Dam	NICKEL	ug/l	2		0.5		< 64	CTR-HDCC
SCP016	12/13/2012	Well MW-11-150	NICKEL	ug/l	8.2		0.5		< 72	CTR-HDCC
SCP045	5/28/2013	Well MW-11-150	NICKEL	ug/l	3.3		0.5		< 64	CTR-HDCC
SCP017	12/13/2012	Well MW-12-183	NICKEL	ug/l	1.3		0.5		< 73	CTR-HDCC
SCP043	5/28/2013	Well MW-12-183	NICKEL	ug/l	1.2		0.5		< 82	CTR-HDCC
SCP035	12/13/2012	Well MW-12-185	NICKEL	ug/l	22		0.5		< 66	CTR-HDCC
SCP040	5/28/2013	Well MW-12-185	NICKEL	ug/l	14		0.5		< 72	CTR-HDCC
SCP036	12/13/2012	Well MW-12-190	NICKEL	ug/l	4.3		0.5		< 42	CTR-HDCC
SCP038	5/28/2013	Well MW-12-190	NICKEL	ug/l	10		0.5		< 57	CTR-HDCC
SCP039	5/28/2013	Well MW-12-191	NICKEL	ug/l	16		0.5		< 53	CTR-HDCC
SCP103	8/11/2015	Columbia Canal @ Terminus	NICKEL (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 11.03	CTR-HDCC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	NICKEL (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 9.86	CTR-HDCC
SCP087	8/10/2015	Poso Canal at Valeria Ave	NICKEL (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 61.96	CTR-HDCC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	NICKEL (DISSOLVED)	ug/l	1.1		0.5	EPA 200.8	< 11.03	CTR-HDCC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	NICKEL (DISSOLVED)	ug/l	< 0.5		0.5	EPA 200.8	< 9.86	CTR-HDCC
SCP086	8/10/2015	San Joaquin River at Sack Dam	NICKEL (DISSOLVED)	ug/l	0.55		0.5	EPA 200.8	< 16.10	CTR-HDCC
SCP090	8/10/2015	Well MW-11-150	NICKEL (DISSOLVED)	ug/l	0.57		0.5	EPA 200.8	< 80.66	CTR-HDCC
SCP088	8/10/2015	Well MW-12-183	NICKEL (DISSOLVED)	ug/l	1.6		0.5	EPA 200.8	< 94.27	CTR-HDCC
SCP099	8/11/2015	Well MW-12-185	NICKEL (DISSOLVED)	ug/l	1.1		0.5	EPA 200.8	< 88.71	CTR-HDCC
SCP095	8/11/2015	Well MW-12-190	NICKEL (DISSOLVED)	ug/l	0.69		0.5	EPA 200.8	< 33.76	CTR-HDCC
SCP096	8/11/2015	Well MW-12-191	NICKEL (DISSOLVED)	ug/l	0.98		0.5	EPA 200.8	< 40.31	CTR-HDCC
SCP104	8/11/2015	Well MW-13-213	NICKEL (DISSOLVED)	ug/l	1.4		0.5	EPA 200.8	< 68.30	CTR-HDCC
SCP101	8/11/2015	Well MW-13-215	NICKEL (DISSOLVED)	ug/l	1		0.5	EPA 200.8	< 49.80	CTR-HDCC
SCP100	8/11/2015	Well MW-13-216	NICKEL (DISSOLVED)	ug/l	0.79		0.5	EPA 200.8	< 76.58	CTR-HDCC
SCP097	8/11/2015	Well PZ-R3-7	NICKEL (DISSOLVED)	ug/l	0.74		0.5	EPA 200.8	< 66.62	CTR-HDCC
SCP103	8/11/2015	Columbia Canal @ Terminus	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	NITRATE AS NO3 (DISSOLVED)	mg/l	3.9	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	NITRATE AS NO3 (DISSOLVED)	mg/l	5.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	NITRATE AS NO3 (DISSOLVED)	mg/l	0.71		0.5	EPA 300.0	< 5	IRRIG SUIT

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP024	12/13/2012	San Joaquin River at Sack Dam	NITRATE AS NO3 (DISSOLVED)	mg/l	3		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	NITRATE AS NO3 (DISSOLVED)	mg/l	3.1	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	NITRATE AS NO3 (DISSOLVED)	mg/l	0.7		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	NITRATE AS NO3 (DISSOLVED)	mg/l	1.2		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	NITRATE AS NO3 (DISSOLVED)	mg/l	1.1	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	NITRATE AS NO3 (DISSOLVED)	mg/l	0.88		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	NITRATE AS NO3 (DISSOLVED)	mg/l	1.2		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	NITRATE AS NO3 (DISSOLVED)	mg/l	1.9		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	NITRATE AS NO3 (DISSOLVED)	mg/l	2.4		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	NITRATE AS NO3 (DISSOLVED)	mg/l	5	T	0.5	EPA 300.0	< 5	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	NITRATE AS NO3 (DISSOLVED)	mg/l	0.79		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	NITRATE AS NO3 (DISSOLVED)	mg/l	1.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	NITRATE AS NO3 (DISSOLVED)	mg/l	< 0.5		0.5	EPA 300.0	< 5	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	ORTHOPHOSPHATE AS PO4	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP016	12/13/2012	Well MW-11-150	ORTHOPHOSPHATE AS PO4	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP017	12/13/2012	Well MW-12-183	ORTHOPHOSPHATE AS PO4	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP035	12/13/2012	Well MW-12-185	ORTHOPHOSPHATE AS PO4	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP036	12/13/2012	Well MW-12-190	ORTHOPHOSPHATE AS PO4	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP045	5/28/2013	Well MW-11-150	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP090	8/10/2015	Well MW-11-150	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP043	5/28/2013	Well MW-12-183	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP088	8/10/2015	Well MW-12-183	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP040	5/28/2013	Well MW-12-185	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP099	8/11/2015	Well MW-12-185	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP038	5/28/2013	Well MW-12-190	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP095	8/11/2015	Well MW-12-190	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP039	5/28/2013	Well MW-12-191	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6	T	0.6	EPA 300.0	-	-
SCP096	8/11/2015	Well MW-12-191	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP104	8/11/2015	Well MW-13-213	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP101	8/11/2015	Well MW-13-215	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP100	8/11/2015	Well MW-13-216	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP097	8/11/2015	Well PZ-R3-7	ORTHOPHOSPHATE AS PO4 (DISSOLVED)	mg/l	< 0.6		0.6	EPA 300.0	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	pH	units	7.7		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	pH	units	8		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	pH	units	8.0		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	pH	units	8		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	pH	units	8.6		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	pH	units	8.1		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	pH	units	7.5		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	pH	units	8.7		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	pH	units	8.1		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	pH	units	8.5		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	pH	units	6.9		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	pH	units	6.7		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	pH	units	6.7		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	pH	units	6.8		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	pH	units	7.2		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	pH	units	7.2		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	pH	units	7.1		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	pH	units	7.2		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	pH	units	7.3		± 0.2	YSI Sonde	< 6.5-8.5	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	POTASSIUM	mg/l	1.7		0.5		-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	POTASSIUM	mg/l	3.6		0.5		-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	POTASSIUM	mg/l	2.4		0.5		-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	POTASSIUM	mg/l	3		0.5		-	-
SCP016	12/13/2012	Well MW-11-150	POTASSIUM	mg/l	3.5		0.5		-	-

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP045	5/28/2013	Well MW-11-150	POTASSIUM	mg/l	2.3		0.5		-	-
SCP017	12/13/2012	Well MW-12-183	POTASSIUM	mg/l	0.65		0.5		-	-
SCP043	5/28/2013	Well MW-12-183	POTASSIUM	mg/l	0.7		0.5		-	-
SCP035	12/13/2012	Well MW-12-185	POTASSIUM	mg/l	12		10		-	-
SCP040	5/28/2013	Well MW-12-185	POTASSIUM	mg/l	9.4		0.5		-	-
SCP036	12/13/2012	Well MW-12-190	POTASSIUM	mg/l	17		10		-	-
SCP038	5/28/2013	Well MW-12-190	POTASSIUM	mg/l	16		0.5		-	-
SCP039	5/28/2013	Well MW-12-191	POTASSIUM	mg/l	9.2		0.5		-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	POTASSIUM (DISSOLVED)	mg/l	0.859		0.5	EPA 200.7	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	POTASSIUM (DISSOLVED)	mg/l	0.744		0.5	EPA 200.7	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	POTASSIUM (DISSOLVED)	mg/l	1.37		0.5	EPA 200.7	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	POTASSIUM (DISSOLVED)	mg/l	0.744		0.5	EPA 200.7	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	POTASSIUM (DISSOLVED)	mg/l	0.668		0.5	EPA 200.7	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	POTASSIUM (DISSOLVED)	mg/l	0.89		0.5	EPA 200.7	-	-
SCP090	8/10/2015	Well MW-11-150	POTASSIUM (DISSOLVED)	mg/l	0.581		0.5	EPA 200.7	-	-
SCP088	8/10/2015	Well MW-12-183	POTASSIUM (DISSOLVED)	mg/l	< 0.5		0.5	EPA 200.7	-	-
SCP099	8/11/2015	Well MW-12-185	POTASSIUM (DISSOLVED)	mg/l	2.89		0.5	EPA 200.7	-	-
SCP095	8/11/2015	Well MW-12-190	POTASSIUM (DISSOLVED)	mg/l	6.82		0.5	EPA 200.7	-	-
SCP096	8/11/2015	Well MW-12-191	POTASSIUM (DISSOLVED)	mg/l	1.46		0.5	EPA 200.7	-	-
SCP104	8/11/2015	Well MW-13-213	POTASSIUM (DISSOLVED)	mg/l	2.4		0.5	EPA 200.7	-	-
SCP101	8/11/2015	Well MW-13-215	POTASSIUM (DISSOLVED)	mg/l	0.613		0.5	EPA 200.7	-	-
SCP100	8/11/2015	Well MW-13-216	POTASSIUM (DISSOLVED)	mg/l	0.588		0.5	EPA 200.7	-	-
SCP097	8/11/2015	Well PZ-R3-7	POTASSIUM (DISSOLVED)	mg/l	2.81		0.5	EPA 200.7	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP037	5/28/2013	Columbia Canal at Eastside Drive	SELENIUM	ug/l	< 0.40		0.4	SM3500-Se-C	< 5	CTR-CC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP042	5/28/2013	Poso Canal at Valeria Ave	SELENIUM	ug/l	0.6		0.4	SM3500-Se-C	< 5	CTR-CC
SCP087	8/10/2015	Poso Canal at Valeria Ave	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP024	12/13/2012	San Joaquin River at Sack Dam	SELENIUM	ug/l	1		0.4	SM3500-Se-C	< 5	CTR-CC
SCP041	5/28/2013	San Joaquin River at Sack Dam	SELENIUM	ug/l	0.7		0.4	SM3500-Se-C	< 5	CTR-CC
SCP086	8/10/2015	San Joaquin River at Sack Dam	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP016	12/13/2012	Well MW-11-150	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP045	5/28/2013	Well MW-11-150	SELENIUM	ug/l	< 0.40		0.4	SM3500-Se-C	< 5	CTR-CC
SCP090	8/10/2015	Well MW-11-150	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP017	12/13/2012	Well MW-12-183	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP043	5/28/2013	Well MW-12-183	SELENIUM	ug/l	< 0.40		0.4	SM3500-Se-C	< 5	CTR-CC
SCP088	8/10/2015	Well MW-12-183	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP035	12/13/2012	Well MW-12-185	SELENIUM	ug/l	0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP040	5/28/2013	Well MW-12-185	SELENIUM	ug/l	< 0.40		0.4	SM3500-Se-C	< 5	CTR-CC
SCP099	8/11/2015	Well MW-12-185	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP036	12/13/2012	Well MW-12-190	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP038	5/28/2013	Well MW-12-190	SELENIUM	ug/l	< 0.40		0.4	SM3500-Se-C	< 5	CTR-CC
SCP095	8/11/2015	Well MW-12-190	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP039	5/28/2013	Well MW-12-191	SELENIUM	ug/l	0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP096	8/11/2015	Well MW-12-191	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP104	8/11/2015	Well MW-13-213	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP101	8/11/2015	Well MW-13-215	SELENIUM	ug/l	0.454		0.4	SM3500-Se-C	< 5	CTR-CC
SCP100	8/11/2015	Well MW-13-216	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP097	8/11/2015	Well PZ-R3-7	SELENIUM	ug/l	< 0.4		0.4	SM3500-Se-C	< 5	CTR-CC
SCP035	12/13/2012	Well MW-12-185	SODIUM	mg/l	46		10	EPA 200.7	< 69	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	SODIUM	mg/l	48		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP040	5/28/2013	Well MW-12-185	SODIUM	mg/l	49		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	SODIUM	mg/l	61		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	SODIUM	mg/l	61		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	SODIUM	mg/l	65		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	SODIUM	mg/l	68		10	EPA 200.7	< 69	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	SODIUM	mg/l	69		10	EPA 200.7	< 69	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	SODIUM	mg/l	70		10	EPA 200.7	< 69	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	SODIUM	mg/l	72		10	EPA 200.7	< 69	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	SODIUM	mg/l	72		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	SODIUM	mg/l	76		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	SODIUM	mg/l	76		0.5	EPA 200.7	< 69	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	SODIUM (DISSOLVED)	mg/l	4.91		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP093	8/11/2015	San Joaquin River @ MW-13-210	SODIUM (DISSOLVED)	mg/l	5.83		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	SODIUM (DISSOLVED)	mg/l	10.1		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	SODIUM (DISSOLVED)	mg/l	39.4		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	SODIUM (DISSOLVED)	mg/l	39.8		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	SODIUM (DISSOLVED)	mg/l	42.3		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	SODIUM (DISSOLVED)	mg/l	45		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	SODIUM (DISSOLVED)	mg/l	54.3		0.5	EPA 200.7	< 69 ¹	IRRIG SUIT

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP097	8/11/2015	Well PZ-R3-7	SODIUM (DISSOLVED)	mg/l	65		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	SODIUM (DISSOLVED)	mg/l	66.6		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	SODIUM (DISSOLVED)	mg/l	69.6		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	SODIUM (DISSOLVED)	mg/l	73.2		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	SODIUM (DISSOLVED)	mg/l	79.3		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	SODIUM (DISSOLVED)	mg/l	81.4		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	SODIUM (DISSOLVED)	mg/l	103		0.5	EPA 200.7	< 69 ⁻¹	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	SODIUM ABSORPTION RATIO	-	3.05	-	-	Calculated	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	SODIUM ABSORPTION RATIO	-	2.59	-	-	Calculated	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	SODIUM ABSORPTION RATIO	-	2.61	-	-	Calculated	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	SODIUM ABSORPTION RATIO	-	2.35	-	-	Calculated	-	-
SCP016	12/13/2012	Well MW-11-150	SODIUM ABSORPTION RATIO	-	2.44	-	-	Calculated	-	-
SCP045	5/28/2013	Well MW-11-150	SODIUM ABSORPTION RATIO	-	2.50	-	-	Calculated	-	-
SCP017	12/13/2012	Well MW-12-183	SODIUM ABSORPTION RATIO	-	2.57	-	-	Calculated	-	-
SCP043	5/28/2013	Well MW-12-183	SODIUM ABSORPTION RATIO	-	2.39	-	-	Calculated	-	-
SCP035	12/13/2012	Well MW-12-185	SODIUM ABSORPTION RATIO	-	1.73	-	-	Calculated	-	-
SCP040	5/28/2013	Well MW-12-185	SODIUM ABSORPTION RATIO	-	1.75	-	-	Calculated	-	-
SCP036	12/13/2012	Well MW-12-190	SODIUM ABSORPTION RATIO	-	3.38	-	-	Calculated	-	-
SCP038	5/28/2013	Well MW-12-190	SODIUM ABSORPTION RATIO	-	2.52	-	-	Calculated	-	-
SCP039	5/28/2013	Well MW-12-191	SODIUM ABSORPTION RATIO	-	3.26	-	-	Calculated	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	SODIUM ABSORPTION RATIO	N/A	5.93	-	-	Calculated	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	SODIUM ABSORPTION RATIO	N/A	5.27	-	-	Calculated	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	SODIUM ABSORPTION RATIO	N/A	4.03	-	-	Calculated	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	SODIUM ABSORPTION RATIO	N/A	0.62	-	-	Calculated	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	SODIUM ABSORPTION RATIO	N/A	0.57	-	-	Calculated	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	SODIUM ABSORPTION RATIO	N/A	0.87	-	-	Calculated	-	-
SCP090	8/10/2015	Well MW-11-150	SODIUM ABSORPTION RATIO	N/A	2.45	-	-	Calculated	-	-
SCP088	8/10/2015	Well MW-12-183	SODIUM ABSORPTION RATIO	N/A	2.13	-	-	Calculated	-	-
SCP099	8/11/2015	Well MW-12-185	SODIUM ABSORPTION RATIO	N/A	2.51	-	-	Calculated	-	-
SCP095	8/11/2015	Well MW-12-190	SODIUM ABSORPTION RATIO	N/A	2.36	-	-	Calculated	-	-
SCP096	8/11/2015	Well MW-12-191	SODIUM ABSORPTION RATIO	N/A	2.01	-	-	Calculated	-	-
SCP104	8/11/2015	Well MW-13-213	SODIUM ABSORPTION RATIO	N/A	2.46	-	-	Calculated	-	-
SCP101	8/11/2015	Well MW-13-215	SODIUM ABSORPTION RATIO	N/A	3.63	-	-	Calculated	-	-
SCP100	8/11/2015	Well MW-13-216	SODIUM ABSORPTION RATIO	N/A	1.36	-	-	Calculated	-	-
SCP097	8/11/2015	Well PZ-R3-7	SODIUM ABSORPTION RATIO	N/A	2.43	-	-	Calculated	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	SULFATE	mg/l	89		5	EPA 300.0	-	-
SCP016	12/13/2012	Well MW-11-150	SULFATE	mg/l	55		2	EPA 300.0	-	-
SCP017	12/13/2012	Well MW-12-183	SULFATE	mg/l	53		2	EPA 300.0	-	-
SCP035	12/13/2012	Well MW-12-185	SULFATE	mg/l	29		2	EPA 300.0	-	-
SCP036	12/13/2012	Well MW-12-190	SULFATE	mg/l	62		2	EPA 300.0	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	SULFATE	mg/l	35.1		1	EPA 300.0	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	SULFATE	mg/l	29		1	EPA 300.0	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	SULFATE	mg/l	25.5		1	EPA 300.0	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	SULFATE	mg/l	66		5	EPA 300.0	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	SULFATE	mg/l	79.3		5	EPA 300.0	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	SULFATE	mg/l	2.6		1	EPA 300.0	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	SULFATE	mg/l	2		1	EPA 300.0	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	SULFATE	mg/l	59		2	EPA 300.0	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	SULFATE	mg/l	7.4		1	EPA 300.0	-	-
SCP045	5/28/2013	Well MW-11-150	SULFATE	mg/l	57		2	EPA 300.0	-	-
SCP090	8/10/2015	Well MW-11-150	SULFATE	mg/l	81.5		5	EPA 300.0	-	-
SCP043	5/28/2013	Well MW-12-183	SULFATE	mg/l	56		5	EPA 300.0	-	-
SCP088	8/10/2015	Well MW-12-183	SULFATE	mg/l	70.5		5	EPA 300.0	-	-
SCP040	5/28/2013	Well MW-12-185	SULFATE	mg/l	56		2	EPA 300.0	-	-
SCP099	8/11/2015	Well MW-12-185	SULFATE	mg/l	67.1		2	EPA 300.0	-	-
SCP038	5/28/2013	Well MW-12-190	SULFATE	mg/l	56		2	EPA 300.0	-	-
SCP095	8/11/2015	Well MW-12-190	SULFATE	mg/l	33.4		1	EPA 300.0	-	-
SCP039	5/28/2013	Well MW-12-191	SULFATE	mg/l	60		2	EPA 300.0	-	-
SCP096	8/11/2015	Well MW-12-191	SULFATE	mg/l	38.5		2	EPA 300.0	-	-
SCP104	8/11/2015	Well MW-13-213	SULFATE	mg/l	87.1		5	EPA 300.0	-	-
SCP101	8/11/2015	Well MW-13-215	SULFATE	mg/l	74.4		2	EPA 300.0	-	-
SCP100	8/11/2015	Well MW-13-216	SULFATE	mg/l	40.7		1	EPA 300.0	-	-
SCP097	8/11/2015	Well PZ-R3-7	SULFATE	mg/l	57.7		2	EPA 300.0	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TDS	mg/l	36		10	SM2540C	< 450	IRRIG SUIT
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TDS	mg/l	38		10	SM2540C	< 450	IRRIG SUIT
SCP086	8/10/2015	San Joaquin River at Sack Dam	TDS	mg/l	70		20	SM2540C	< 450	IRRIG SUIT
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TDS	mg/l	163		10	SM2540C	< 450	IRRIG SUIT
SCP037	5/28/2013	Columbia Canal at Eastside Drive	TDS	mg/l	200		10	SM2540C	< 450	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	TDS	mg/l	212		10	SM2540C	< 450	IRRIG SUIT
SCP035	12/13/2012	Well MW-12-185	TDS	mg/l	220		10	SM2540C	< 450	IRRIG SUIT
SCP095	8/11/2015	Well MW-12-190	TDS	mg/l	232		20	SM2540C	< 450	IRRIG SUIT
SCP096	8/11/2015	Well MW-12-191	TDS	mg/l	250		20	SM2540C	< 450	IRRIG SUIT

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP040	5/28/2013	Well MW-12-185	TDS	mg/l	260		10	SM2540C	< 450	IRRIG SUIT
SCP038	5/28/2013	Well MW-12-190	TDS	mg/l	280		10	SM2540C	< 450	IRRIG SUIT
SCP036	12/13/2012	Well MW-12-190	TDS	mg/l	290		10	SM2540C	< 450	IRRIG SUIT
SCP039	5/28/2013	Well MW-12-191	TDS	mg/l	290		10	SM2540C	< 450	IRRIG SUIT
SCP041	5/28/2013	San Joaquin River at Sack Dam	TDS	mg/l	310		10	SM2540C	< 450	IRRIG SUIT
SCP016	12/13/2012	Well MW-11-150	TDS	mg/l	320		10	SM2540C	< 450	IRRIG SUIT
SCP024	12/13/2012	San Joaquin River at Sack Dam	TDS	mg/l	330		10	SM2540C	< 450	IRRIG SUIT
SCP045	5/28/2013	Well MW-11-150	TDS	mg/l	340		10	SM2540C	< 450	IRRIG SUIT
SCP042	5/28/2013	Poso Canal at Valeria Ave	TDS	mg/l	360		10	SM2540C	< 450	IRRIG SUIT
SCP017	12/13/2012	Well MW-12-183	TDS	mg/l	360		10	SM2540C	< 450	IRRIG SUIT
SCP100	8/11/2015	Well MW-13-216	TDS	mg/l	360		20	SM2540C	< 450	IRRIG SUIT
SCP097	8/11/2015	Well PZ-R3-7	TDS	mg/l	374		10	SM2540C	< 450	IRRIG SUIT
SCP101	8/11/2015	Well MW-13-215	TDS	mg/l	412		20	SM2540C	< 450	IRRIG SUIT
SCP043	5/28/2013	Well MW-12-183	TDS	mg/l	420		10	SM2540C	< 450	IRRIG SUIT
SCP104	8/11/2015	Well MW-13-213	TDS	mg/l	437		10	SM2540C	< 450	IRRIG SUIT
SCP090	8/10/2015	Well MW-11-150	TDS	mg/l	478		20	SM2540C	< 450	IRRIG SUIT
SCP099	8/11/2015	Well MW-12-185	TDS	mg/l	492		20	SM2540C	< 450	IRRIG SUIT
SCP087	8/10/2015	Poso Canal at Valeria Ave	TDS	mg/l	510 ^B		10	SM2540C	< 450	IRRIG SUIT
SCP088	8/10/2015	Well MW-12-183	TDS	mg/l	514 ^B		10	SM2540C	< 450	IRRIG SUIT
SCP103	8/11/2015	Columbia Canal @ Terminus	TEMPERATURE	°C	27.2		± 0.15	YSI Sonde	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	TEMPERATURE	°C	23.5		± 0.15	YSI Sonde	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TEMPERATURE	°C	22.9		± 0.15	YSI Sonde	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	TEMPERATURE	°C	21.9		± 0.15	YSI Sonde	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	TEMPERATURE	°C	22.9		± 0.15	YSI Sonde	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TEMPERATURE	°C	26.7		± 0.15	YSI Sonde	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TEMPERATURE	°C	22.8		± 0.15	YSI Sonde	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	TEMPERATURE	°C	9.9		± 0.15	YSI Sonde	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	TEMPERATURE	°C	21.8		± 0.15	YSI Sonde	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	TEMPERATURE	°C	24.8		± 0.15	YSI Sonde	-	-
SCP016	12/13/2012	Well MW-11-150	TEMPERATURE	°C	18.4		± 0.15	YSI Sonde	-	-
SCP045	5/28/2013	Well MW-11-150	TEMPERATURE	°C	20.6		± 0.15	YSI Sonde	-	-
SCP017	12/13/2012	Well MW-12-183	TEMPERATURE	°C	19.7		± 0.15	YSI Sonde	-	-
SCP043	5/28/2013	Well MW-12-183	TEMPERATURE	°C	19.4		± 0.15	YSI Sonde	-	-
SCP035	12/13/2012	Well MW-12-185	TEMPERATURE	°C	21.7		± 0.15	YSI Sonde	-	-
SCP040	5/28/2013	Well MW-12-185	TEMPERATURE	°C	16.7		± 0.15	YSI Sonde	-	-
SCP036	12/13/2012	Well MW-12-190	TEMPERATURE	°C	18.9		± 0.15	YSI Sonde	-	-
SCP038	5/28/2013	Well MW-12-190	TEMPERATURE	°C	17.6		± 0.15	YSI Sonde	-	-
SCP039	5/28/2013	Well MW-12-191	TEMPERATURE	°C	18.4		± 0.15	YSI Sonde	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	TKN	mg/l	< 0.50		0.5	EPA 351.2	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	TKN	mg/l	0.5		0.5	EPA 351.2	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP024	12/13/2012	San Joaquin River at Sack Dam	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	TKN	mg/l	< 0.50		0.5	EPA 351.2	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP016	12/13/2012	Well MW-11-150	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP045	5/28/2013	Well MW-11-150	TKN	mg/l	< 0.50		0.5	EPA 351.2	-	-
SCP090	8/10/2015	Well MW-11-150	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP017	12/13/2012	Well MW-12-183	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP043	5/28/2013	Well MW-12-183	TKN	mg/l	< 0.50		0.5	EPA 351.2	-	-
SCP088	8/10/2015	Well MW-12-183	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP035	12/13/2012	Well MW-12-185	TKN	mg/l	0.52		0.5	EPA 351.2	-	-
SCP040	5/28/2013	Well MW-12-185	TKN	mg/l	< 0.50		0.5	EPA 351.2	-	-
SCP099	8/11/2015	Well MW-12-185	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP036	12/13/2012	Well MW-12-190	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP038	5/28/2013	Well MW-12-190	TKN	mg/l	< 0.50		0.5	EPA 351.2	-	-
SCP095	8/11/2015	Well MW-12-190	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP039	5/28/2013	Well MW-12-191	TKN	mg/l	0.56		0.5	EPA 351.2	-	-
SCP096	8/11/2015	Well MW-12-191	TKN	mg/l	2.2		0.5	EPA 351.2	-	-
SCP104	8/11/2015	Well MW-13-213	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP101	8/11/2015	Well MW-13-215	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP100	8/11/2015	Well MW-13-216	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP097	8/11/2015	Well PZ-R3-7	TKN	mg/l	< 0.5		0.5	EPA 351.2	-	-
SCP103	8/11/2015	Columbia Canal @ Terminus	TURBIDITY	NTU	111.0		± 2%	Hach Meter	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	TURBIDITY	NTU	11.6		± 2%	Hach Meter	-	-
SCP094	8/11/2015	Columbia Canal at Eastside Drive	TURBIDITY	NTU	5.4		± 2%	Hach Meter	-	-
SCP042	5/28/2013	Poso Canal at Valeria Ave	TURBIDITY	NTU	54.2		± 2%	Hach Meter	-	-
SCP087	8/10/2015	Poso Canal at Valeria Ave	TURBIDITY	NTU	9.8		± 2%	Hach Meter	-	-
SCP093	8/11/2015	San Joaquin River @ MW-13-210	TURBIDITY	NTU	10.0		± 2%	Hach Meter	-	-
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	TURBIDITY	NTU	14.5		± 2%	Hach Meter	-	-

Water Quality Monitoring for SJR Seepage Management

Appendix C Results of Inorganic Analyses for 2015 (for comparison, data from 2012 and 2013 is included where available)

SAMPLE ID	DATE	SITE NAME	ANALYTE	UNITS	RESULT	FLAG	RL	METHOD	STD value	STD name
SCP024	12/13/2012	San Joaquin River at Sack Dam	TURBIDITY	NTU	-		± 2%	Hach Meter	-	-
SCP041	5/28/2013	San Joaquin River at Sack Dam	TURBIDITY	NTU	13.6		± 2%	Hach Meter	-	-
SCP086	8/10/2015	San Joaquin River at Sack Dam	TURBIDITY	NTU	6.5		± 2%	Hach Meter	-	-
SCP016	12/13/2012	Well MW-11-150	TURBIDITY	NTU	32.1		± 2%	Hach Meter	-	-
SCP045	5/28/2013	Well MW-11-150	TURBIDITY	NTU	61.1		± 2%	Hach Meter	-	-
SCP017	12/13/2012	Well MW-12-183	TURBIDITY	NTU	5.1		± 2%	Hach Meter	-	-
SCP043	5/28/2013	Well MW-12-183	TURBIDITY	NTU	1.2		± 2%	Hach Meter	-	-
SCP035	12/13/2012	Well MW-12-185	TURBIDITY	NTU	329		± 2%	Hach Meter	-	-
SCP040	5/28/2013	Well MW-12-185	TURBIDITY	NTU	402		± 2%	Hach Meter	-	-
SCP036	12/13/2012	Well MW-12-190	TURBIDITY	NTU	320		± 2%	Hach Meter	-	-
SCP038	5/28/2013	Well MW-12-190	TURBIDITY	NTU	439		± 2%	Hach Meter	-	-
SCP039	5/28/2013	Well MW-12-191	TURBIDITY	NTU	463		± 2%	Hach Meter	-	-
SCP037	5/28/2013	Columbia Canal at Eastside Drive	ZINC	ug/l	< 20.00		20		< 62	CTR-HDCC
SCP042	5/28/2013	Poso Canal at Valeria Ave	ZINC	ug/l	< 20.00		20		< 100	BP
SCP024	12/13/2012	San Joaquin River at Sack Dam	ZINC	ug/l	< 20		20		< 100	BP
SCP041	5/28/2013	San Joaquin River at Sack Dam	ZINC	ug/l	< 20.00		20		< 100	BP
SCP045	5/28/2013	Well MW-11-150	ZINC	ug/l	< 20.00		20		< 100	BP
SCP017	12/13/2012	Well MW-12-183	ZINC	ug/l	< 20		20		< 100	BP
SCP043	5/28/2013	Well MW-12-183	ZINC	ug/l	< 20.00		20		< 100	BP
SCP040	5/28/2013	Well MW-12-185	ZINC	ug/l	81		20		< 100	BP
SCP038	5/28/2013	Well MW-12-190	ZINC	ug/l	85		20		< 100	BP
SCP035	12/13/2012	Well MW-12-185	ZINC	ug/l	120		20		< 100	BP
SCP036	12/13/2012	Well MW-12-190	ZINC	ug/l	130 ⁹		20		< 100	BP
SCP016	12/13/2012	Well MW-11-150	ZINC	ug/l	150		20		< 100	BP
SCP039	5/28/2013	Well MW-12-191	ZINC	ug/l	200 ⁹		20		< 100	BP
SCP103	8/11/2015	Columbia Canal @ Terminus	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 25.01	CTR-HDCC
SCP094	8/11/2015	Columbia Canal at Eastside Drive	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 22.33	CTR-HDCC
SCP087	8/10/2015	Poso Canal at Valeria Ave	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 140.79	CTR-HDCC
SCP093	8/11/2015	San Joaquin River @ MW-13-210	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 25.01	CTR-HDCC
SCP098	8/11/2015	San Joaquin River @ PZ-R3-7	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 22.33	CTR-HDCC
SCP086	8/10/2015	San Joaquin River at Sack Dam	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 36.50	CTR-HDCC
SCP090	8/10/2015	Well MW-11-150	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 183.36	CTR-HDCC
SCP088	8/10/2015	Well MW-12-183	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 214.35	CTR-HDCC
SCP099	8/11/2015	Well MW-12-185	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 201.69	CTR-HDCC
SCP095	8/11/2015	Well MW-12-190	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 76.63	CTR-HDCC
SCP096	8/11/2015	Well MW-12-191	ZINC (DISSOLVED)	ug/l	25.2		20	EPA 200.8	< 91.54	CTR-HDCC
SCP104	8/11/2015	Well MW-13-213	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 155.21	CTR-HDCC
SCP101	8/11/2015	Well MW-13-215	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 113.11	CTR-HDCC
SCP100	8/11/2015	Well MW-13-216	ZINC (DISSOLVED)	ug/l	< 20		20	EPA 200.8	< 174.07	CTR-HDCC
SCP097	8/11/2015	Well PZ-R3-7	ZINC (DISSOLVED)	ug/l	840		20	EPA 200.8	< 151.39	CTR-HDCC

¹ Limit is for total (unfiltered) sample; sample was dissolved (filtered before analysis)

² Limit is for dissolved (filtered) sample; sample was analyzed as total (unfiltered)

³ Result meets IRRIG SUIT (100 µg/L) and P&L (200 µg/L)

⁴ Result also exceeds USEPA PMCL (5.0 ug/L) and IRRIG SUIT (10 µg/L)


⁵ Result meets IRRIG SUIT (700 µg/L)


⁶ Result also exceeds IRRIG SUIT (700 µg/L)


⁷ Result also exceeds FWAL-CC (770 ng/L) and FWAL - MC (1400 ng/L)


⁸ Result also exceeds USEPA SMCL (500 mg/L)

⁹ Result also exceeds CTR standard (97 ug/L for SCPO36; 122 µg/L for SCP039)

 green highlight = WQ standard was met

 pink highlight = WQ standard was not met

 orange highlight = can't tell if WQ standard was met or not

 no highlight = no WQ standard applies

Appendix D

Quality Assurance Summary Report

RECLAMATION

Managing Water in the West

San Joaquin River Restoration - Seepage Control Study

Quality Assurance Summary

**U.S. Bureau of Reclamation, Mid-Pacific Region
Environmental Monitoring Branch**



U.S. Department of the Interior
Bureau of Reclamation
Mid-Pacific Region

**Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch**

Samples for the San Joaquin River - Seepage Control Study were collected on 8/10/15 and 8/11/15. The Quality Assurance (QA) section of the Quality Assurance and Data Management Branch (QADM) incorporated QA samples with the field samples to assess the laboratory's ability to generate valid data. Agriculture & Priority Pollutants Laboratories (APPL) analyzed alkalinity, anions, cations, metals (excluding low level cadmium, low level mercury, & selenium), nutrients, organo-chlorine pesticides, organo-phosphorus pesticides, and total dissolved solids (TDS). Eurofins analyzed dibromochloropropane (DBCP), ethyl dibromide (EDB), semi-volatile organic compounds, and sulfonyl urea compounds. Basic Laboratory (Basic) analyzed low level cadmium and low level mercury. South Dakota Agricultural Laboratories (SD Ag) analyzed selenium.

The QADM's QA section reviewed and validated the QA sample results as well as the laboratory Quality Control sample results. The summary of the QA review is discussed below.

Precision - External QA Samples

Environmental samples were incorporated in duplicate to assess precision. With the exception of dissolved aluminum for the bracket of samples SCP-096 through 101, 103, 104, 110, 111, and 117; all parameters assessed for precision demonstrated differences within the QA acceptance limits. For results greater than or equal to five times the reporting limit (RL), the acceptance limit is less than or equal to 20% relative percent difference (RPD) between the results. For results less than five times the RL, the difference between the results must be within one RL.

Due to the results being greater than one reporting limit in value from each other, both duplicate samples (SCP-103 and SCP-117) were submitted for the reanalysis of dissolved aluminum. Upon reanalyzing samples SCP-103 and SCP-117 for dissolved aluminum, the laboratory obtained reanalyzed results which confirmed their original results. As a result, Reclamation accepted all the original dissolved aluminum results for samples SCP-096 through 101, 103, 104, 110, 111, and 117 as valid.

Duplicate sample (SCP-086 & SCP-116) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
ALKALINITY	25.5	25.5	0.00%	≤ 20% RPD	2.0
BICARBONATE AS CaCO ₃	25.5	25.5	0.00%	≤ 20% RPD	2.0
CARBONATE AS CaCO ₃	< 2.0	< 2.0	0.0	+/-RL	2.0
CHLORIDE (DISSOLVED)	12.4	12.5	0.80%	≤ 20% RPD	1.0
NITRATE AS NO ₃ (DISSOLVED)	0.70	0.73	0.03	+/-RL	0.5
ORTHOPHOSPHATE AS PO ₄ (DISSOLVED)	< 0.6	< 0.6	0.00	+/-RL	0.6
SULFATE (DISSOLVED)	7.4	7.6	2.7%	≤ 20% RPD	1.0
TDS	70.0	63.0	10%	≤ 20% RPD	10

Duplicate sample (SCP-086 & SCP-116) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
ALUMINUM (DISSOLVED)	24.5	< 20.0	4.5	+/-RL	20.0
AMMONIA AS N	< 0.5	< 0.5	0.0	+/-RL	0.5
ARSENIC (DISSOLVED)	1.5	1.2	0.3	+/-RL	0.5
BORON (DISSOLVED)	64.0	66.3	2.3	+/-RL	25
CALCIUM (DISSOLVED)	5.92	5.92	0.00%	≤ 20% RPD	0.050
COPPER (DISSOLVED)	< 0.5	< 0.5	0.0	+/-RL	0.5
LEAD (DISSOLVED)	< 0.2	< 0.2	0.0	+/-RL	0.2
MAGNESIUM (DISSOLVED)	2.52	2.51	0.40%	≤ 20% RPD	0.025
MOLYBDENUM (DISSOLVED)	1.9 L	1.9 L	0.0	+/-RL	0.5
NICKEL (DISSOLVED)	0.55	< 0.5	0.05	+/-RL	0.5
POTASSIUM (DISSOLVED)	0.890	0.888	0.002	+/-RL	0.5
SODIUM (DISSOLVED)	10.1	10.1	0.00%	≤ 20% RPD	0.5
TKN	< 0.50	< 0.50	0.00	+/-RL	0.50
ZINC (DISSOLVED)	< 20.0	< 20.0	0.0	+/-RL	20.0

Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch

Duplicate sample (SCP-086 & SCP-116) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
CADMIUM (DISSOLVED)	< 0.100	< 0.100	0.000	+/-RL	0.100
MERCURY	3.05	3.00	0.05	+/-RL	2.00

Duplicate sample (SCP-086 & SCP-116) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
SELENIUM	< 0.4	< 0.4	0.0	+/-RL	0.4

Duplicate sample (SCP-103 and SCP-117) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
ALKALINITY	54.7	53.9	1.5%	≤ 20% RPD	2.0
BICARBONATE AS CaCO ₃	54.7	53.9	1.5%	≤ 20% RPD	2.0
CARBONATE AS CaCO ₃	< 2.0	< 2.0	0.0	+/-RL	2.0
CHLORIDE (DISSOLVED)	44.4	44.3	0.22%	≤ 20% RPD	1.0
NITRATE AS NO ₃ (DISSOLVED)	<0.5	<0.5	0.0	+/-RL	0.5
ORTHOPHOSPHATE AS PO ₄ (DISSOLVED)	<0.6	<0.6	0.0	+/-RL	0.6
SULFATE (DISSOLVED)	35.1	34.9	0.57%	≤ 20% RPD	1.0
TDS	212	212	0.00%	≤ 20% RPD	10

Duplicate sample (SCP-103 and SCP-117) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
ALUMINUM (DISSOLVED)	34.3 RC	60.6 RC	26.3	+/-RL	20.0
AMMONIA AS N	< 0.5 L	< 0.5 L	0.0	+/-RL	0.5
ARSENIC (DISSOLVED)	16.1	15.6	3.2%	≤ 20% RPD	0.5
BORON (DISSOLVED)	181	183	1.1%	≤ 20% RPD	25.0
CALCIUM (DISSOLVED)	4.16	4.26	2.4%	≤ 20% RPD	0.050
COPPER (DISSOLVED)	3.2	3.1	3.2%	≤ 20% RPD	0.5
LEAD (DISSOLVED)	0.21	< 0.2	0.01	+/-RL	0.2
MAGNESIUM (DISSOLVED)	1.31	1.33	1.5%	≤ 20% RPD	0.025
MOLYBDENUM (DISSOLVED)	3.7	3.4	8.4%	≤ 20% RPD	0.5
NICKEL (DISSOLVED)	< 0.5	< 0.5	0.0	+/-RL	0.5
POTASSIUM (DISSOLVED)	0.859	0.856	0.003	+/-RL	0.5
SODIUM (DISSOLVED)	54.3	54.0	0.55%	≤ 20% RPD	0.5
TKN	< 0.50	< 0.50	0.00	+/-RL	0.50
ZINC (DISSOLVED)	< 20.0	< 20.0	0.0	+/-RL	20.0

RC = Reanalyzed and confirmed

Duplicate sample (SCP-103 and SCP-117) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
CADMIUM (DISSOLVED)	< 0.100	< 0.100	0.000	+/-RL	0.100
MERCURY	5.79	6.22	0.43	+/-RL	2.00

**Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch**

Duplicate sample (SCP-103 and SCP-117) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Duplicate 1 Result	Duplicate 2 Result	Percent RPD or Difference	Acceptance Criteria	RL
SELENIUM	< 0.4	< 0.4	0.0	+/-RL	0.4

Accuracy - External QA Samples

With the exception of low level dissolved cadmium and dissolved molybdenum for the bracket of samples SCP-086 to 088, 090, 093 to 095, 112, 113, and 116 and ammonia as N, low level dissolved cadmium, dissolved copper, dissolved lead, and dissolved molybdenum for the bracket of samples SCP-096 through 101, 103, 104, 110, 111, and 117; all the external QA spike, blank spike, and reference results were within the acceptable accuracy limit of 80 - 120% recovery.

Due to a low recovery for low level dissolved cadmium on the external QA spike sample (SCP-113), the external QA spike sample (SCP-113) was submitted for the reanalysis of low level dissolved cadmium. Upon reanalyzing sample SCP-113 for low level dissolved cadmium, the laboratory obtained a reanalyzed result which confirmed their original result. As a result, Reclamation accepted all the original low level dissolved cadmium results for the bracket of samples SCP-086 to 088, 090, 093 to 095, 112, 113, and 116 as valid.

Due to a low recovery on the external QA spike sample (SCP-113) and poor precision on the external QA duplicate samples (SCP-086 and SCP-116) for dissolved molybdenum, the external QA spike sample (SCP-113) and external QA duplicate samples (SCP-086 and SCP-116) were submitted for the reanalysis of dissolved molybdenum. Upon reanalyzing sample SCP-086 for dissolved molybdenum, the laboratory obtained a dissolved molybdenum result which failed to confirm their original dissolved molybdenum value. As a result, the bracket of samples SCP-086 to 088, 090, 093 to 095, 112, 113, and 116 was submitted for an additional dissolved molybdenum analysis. Upon analyzing this bracket of samples the additional time for dissolved molybdenum, the external QA spike sample (SCP-113) demonstrated an unacceptably low recovery for dissolved molybdenum. Since the precision between the external duplicate samples (SCP-086 and 116) was unacceptable and the external QA spike sample (SCP-113) demonstrated an unacceptably low recovery for dissolved molybdenum upon originally analyzing samples SCP-086 to 088, 090, 093 to 095, 112, 113, and 116 for dissolved molybdenum, Reclamation accepted the bracket reanalysis of samples SCP-086 to 088, 090, 093 to 095, 112, 113, and 116 for dissolved molybdenum with the qualification that these dissolved molybdenum results may be biased low ("L" qualification).

Due to a low recovery on the external QA spike sample (SCP-111) for ammonia as N, the external QA spike sample (SCP-111) was submitted for the reanalysis of ammonia as N. Upon reanalyzing sample SCP-111 for ammonia as N, the laboratory obtained an ammonia as N result which failed to confirm their original ammonia as N value. As a result, the bracket of samples SCP-096 through 101, 103, 104, 110, 111, and 117 was submitted for an additional ammonia as N analysis. Upon analyzing this bracket of samples the additional time for ammonia as N, the external QA spike sample (SCP-111) again demonstrated an unacceptably low recovery for ammonia as N. Since the bracket reanalysis of samples SCP-096 to 101, 103, 104, 110, 111, and 117 also demonstrated an unacceptably low recovery for ammonia as N on the external QA spike sample (SCP-111), Reclamation will accept the original ammonia as N results for samples SCP-096 to 101, 103, 104, 110, 111, and 117 based on these samples being analyzed for ammonia as N within ammonia as N's 28 day holding time. However, these accepted ammonia as N results for samples SCP-096 to 101, 103, 104, 110, 111, and 117 were be qualified as possibly being biased low ("L" qualification).

Due to a low recoveries for low level dissolved cadmium, dissolved lead, and dissolved molybdenum on the external QA spike sample (SCP-111), the external QA spike sample (SCP-111) was submitted for the reanalysis of low level dissolved cadmium, dissolved lead, and dissolved molybdenum. Upon reanalyzing sample SCP-111 for low level cadmium, dissolved lead, and dissolved molybdenum; the laboratory obtained reanalyzed results which confirmed their original results for these parameters. As a result, Reclamation accepted all the original low level dissolved cadmium, dissolved lead, and dissolved molybdenum results for the bracket of samples SCP-096 to 101, 103, 104, 110, 111, and 117 as valid.

Due to a high recovery for dissolved copper on the external QA spike sample (SCP-111), the external QA spike sample (SCP-111) was submitted for the reanalysis of dissolved copper. Upon reanalyzing sample SCP-111 for dissolved copper, the laboratory obtained a reanalyzed result which confirmed their original result. As a result, Reclamation accepted all the original dissolved copper results for the bracket of samples SCP-096 to 101, 103, 104, 110, 111, and 117 as valid.

Blank spike sample (SCP-113) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Blank Spike Result	Blank Spike Concentration	Percent Recovery	Acceptance Criteria
NITRATE AS NO3 (DISSOLVED)	4.5	4.7	96%	80 - 120%
ORTHOPHOSPHATE AS PO4 (DISSOLVED)	3.8	3.8	100%	80 - 120%

**Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch**

Reference sample (SCP-113) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Reference Result	Reference Certified Value	Percent Recovery	Acceptance Criteria
ALKALINITY	68.0	75.0	91%	80 - 120%
CHLORIDE (DISSOLVED)	61.0	64.0	95%	80 - 120%
SULFATE (DISSOLVED)	30.2	33.4	90%	80 - 120%
TDS	223	253	88%	80 - 120%

Spike sample (SCP-113) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Spike Result	Background Result	Spike Concentration	Percent Recovery	Acceptance Criteria
ALUMINUM (DISSOLVED)	538	24.5	548	94%	80 - 120%
AMMONIA AS N	2.3	< 0.5	2.6	88%	80 - 120%
ARSENIC (DISSOLVED)	11.1	1.5	11.0	87%	80 - 120%
BORON (DISSOLVED)	313	64.0	276	90%	80 - 120%
CALCIUM (DISSOLVED)	29.5	5.92	26.7	88%	80 - 120%
COPPER (DISSOLVED)	10.2	< 0.5	11.0	93%	80 - 120%
LEAD (DISSOLVED)	5.4	< 0.2	5.5	98%	80 - 120%
MAGNESIUM (DISSOLVED)	16.8	2.52	15.8	90%	80 - 120%
MOLYBDENUM (DISSOLVED)	3.8 L	1.9 L	2.5	76%	80 - 120%
NICKEL (DISSOLVED)	10.5	0.55	11.0	90%	80 - 120%
POTASSIUM (DISSOLVED)	3.45	0.890	3.16	81%	80 - 120%
SODIUM (DISSOLVED)	61.8	10.1	61.2	84%	80 - 120%
TKN	2.5	< 0.50	2.6	96%	80 - 120%
ZINC (DISSOLVED)	111	< 20.0	110	101%	80 - 120%

Spike sample (SCP-113) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Spike Result	Background Result	Spike Concentration	Percent Recovery	Acceptance Criteria
CADMIUM (DISSOLVED)	0.326 RC	< 0.100	0.525	62%	80 - 120%
MERCURY	22.8	3.05	18.4	107%	80 - 120%

RC = Reanalyzed and Confirmed

Spike sample (SCP-113) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Spike Result	Background Result	Spike Concentration	Percent Recovery	Acceptance Criteria
SELENIUM	3.33	< 0.4	3.17	105%	80-120%

Blank spike sample (SCP-111) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Blank Spike Result	Blank Spike Concentration	Percent Recovery	Acceptance Criteria
NITRATE AS NO3 (DISSOLVED)	4.4	4.4	100%	80 - 120%
ORTHOPHOSPHATE AS PO4 (DISSOLVED)	3.4	3.5	97%	80 - 120%

Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch

Reference sample (SCP-111) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Reference Result	Reference Certified Value	Percent Recovery	Acceptance Criteria
ALKALINITY	72.4	78.9	92%	80 - 120%
CHLORIDE (DISSOLVED)	32.7	32.7	100%	80 - 120%
SULFATE (DISSOLVED)	31.1	33.2	94%	80 - 120%
TDS	177	190	93%	80 - 120%

Spike sample (SCP-111) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Spike Result	Background Result	Spike Concentration	Percent Recovery	Acceptance Criteria
ALUMINUM (DISSOLVED)	603	34.3 RC	506	112%	80 - 120%
AMMONIA AS N	1.8 L	< 0.5	2.7	67%	80 - 120%
ARSENIC (DISSOLVED)	24.4	16.1	10.1	82%	80 - 120%
BORON (DISSOLVED)	352	181	198	86%	80 - 120%
CALCIUM (DISSOLVED)	14.6	4.16	11.1	94%	80 - 120%
COPPER (DISSOLVED)	19.4 RC	3.2	10.1	160%	80 - 120%
LEAD (DISSOLVED)	3.9 RC	0.21	5.0	74%	80 - 120%
MAGNESIUM (DISSOLVED)	6.83	1.31	5.95	93%	80 - 120%
MOLYBDENUM (DISSOLVED)	4.2 RC	3.7	2.6	19%	80 - 120%
NICKEL (DISSOLVED)	10.1	< 0.5	10.1	100%	80 - 120%
POTASSIUM (DISSOLVED)	2.87	0.859	2.38	84%	80 - 120%
SODIUM (DISSOLVED)	98.3	54.3	51.5	85%	80 - 120%
TKN	2.4	< 0.50	2.7	89%	80 - 120%
ZINC (DISSOLVED)	106	< 20.0	101	105%	80 - 120%

RC = Reanalyzed and Confirmed

Spike sample (SCP-111) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Spike Result	Background Result	Spike Concentration	Percent Recovery	Acceptance Criteria
CADMIUM (DISSOLVED)	0.101 RC	< 0.100	0.525	19%	80 - 120%
MERCURY	24.0	5.79	15.6	117%	80 - 120%

RC = Reanalyzed and Confirmed

Spike sample (SCP-111) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Spike Result	Background Result	Spike Concentration	Percent Recovery	Acceptance Criteria
SELENIUM	2.60	< 0.4	2.90	90%	80-120%

**Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch**

Contamination - External QA Samples

All parameters assessed for contamination met the QA acceptance limits of less than or equal to two times the reporting limit or less than or equal to 10% of the lowest production sample result.

Blank sample (SCP-112) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
ALKALINITY	< 2.0	2.0	≤ 2RL
BICARBONATE AS CaCO ₃	< 2.0	2.0	≤ 2RL
CARBONATE AS CaCO ₃	< 2.0	2.0	≤ 2RL
CHLORIDE (DISSOLVED)	< 1.0	1.0	≤ 2RL
NITRATE AS NO ₃ (DISSOLVED)	< 0.5	0.5	≤ 2RL
ORTHOPHOSPHATE AS PO ₄ (DISSOLVED)	< 0.6	0.6	≤ 2RL
SULFATE (DISSOLVED)	< 1.0	1.0	≤ 2RL
TDS	<10	10	≤ 2RL

Blank sample (SCP-112) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
ALUMINUM (DISSOLVED)	< 20.0	20.0	≤ 2RL
AMMONIA AS N	< 0.5	0.5	≤ 2RL
ARSENIC (DISSOLVED)	< 0.5	0.5	≤ 2RL
BORON (DISSOLVED)	< 25.0	25.0	≤ 2RL
CALCIUM (DISSOLVED)	< 0.050	0.050	≤ 2RL
COPPER (DISSOLVED)	< 0.5	0.5	≤ 2RL
LEAD (DISSOLVED)	< 0.2	0.2	≤ 2RL
MAGNESIUM (DISSOLVED)	< 0.025	0.025	≤ 2RL
MOLYBDENUM (DISSOLVED)	< 0.5 L	0.5	≤ 2RL
NICKEL (DISSOLVED)	< 0.5	0.5	≤ 2RL
POTASSIUM (DISSOLVED)	< 0.5	0.5	≤ 2RL
SODIUM (DISSOLVED)	< 0.5	0.5	≤ 2RL
TKN	< 0.50	0.50	≤ 2RL
ZINC (DISSOLVED)	< 20.0	20.0	≤ 2RL

Blank sample (SCP-112) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
CADMIUM (DISSOLVED)	< 0.100	0.100	≤ 2RL
MERCURY	< 2.00	2.00	≤ 2RL

Blank sample (SCP-112) results for the bracket SCP-086 to 088, 090, 093 to 095, 112, 113, & 116

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
SELENIUM	< 0.4	0.4	≤ 2RL

**Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch**

Blank sample (SCP-110) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
ALKALINITY	< 2.0	2.0	≤ 2RL
BICARBONATE AS CaCO ₃	< 2.0	2.0	≤ 2RL
CARBONATE AS CaCO ₃	< 2.0	2.0	≤ 2RL
CHLORIDE (DISSOLVED)	< 1.0	1.0	≤ 2RL
NITRATE AS NO ₃ (DISSOLVED)	< 0.5	0.5	≤ 2RL
ORTHOPHOSPHATE AS PO ₄ (DISSOLVED)	< 0.6	0.6	≤ 2RL
SULFATE (DISSOLVED)	< 1.0	1.0	≤ 2RL
TDS	<10	10	≤ 2RL

Blank sample (SCP-110) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
ALUMINUM (DISSOLVED)	< 20.0	20.0	≤ 2RL
AMMONIA AS N	< 0.5 L	0.5	≤ 2RL
ARSENIC (DISSOLVED)	< 0.5	0.5	≤ 2RL
BORON (DISSOLVED)	< 25.0	25.0	≤ 2RL
CALCIUM (DISSOLVED)	< 0.050	0.050	≤ 2RL
COPPER (DISSOLVED)	< 0.5	0.5	≤ 2RL
LEAD (DISSOLVED)	< 0.2	0.2	≤ 2RL
MAGNESIUM (DISSOLVED)	< 0.025	0.025	≤ 2RL
MOLYBDENUM (DISSOLVED)	< 0.5 L	0.5	≤ 2RL
NICKEL (DISSOLVED)	< 0.5	0.5	≤ 2RL
POTASSIUM (DISSOLVED)	< 0.5	0.5	≤ 2RL
SODIUM (DISSOLVED)	< 0.5	0.5	≤ 2RL
TKN	< 0.50	0.50	≤ 2RL
ZINC (DISSOLVED)	< 20.0	20.0	≤ 2RL

Blank sample (SCP-110) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
CADMIUM (DISSOLVED)	< 0.100	0.100	≤ 2RL
MERCURY	< 2.00	2.00	≤ 2RL

Blank sample (SCP-110) results for the bracket SCP-096 to 101, 103, 104, 110, 111, and 117

Parameter	Blank Result	Reporting Limit	Acceptance Criteria
SELENIUM	< 0.4	0.4	≤ 2RL

Historical Outlier

A result is considered to be an outlier if it is greater than three standard deviations from the average result at a site. At least twelve points are needed to assess results for outliers. As of this sampling event, twelve points were not available for any of the sites; so an outlier assessment was not conducted. However, the dissolved low level cadmium and low level mercury results obtained at well site MW-13-204 (SCP-104) demonstrated unexpectedly high values and were submitted for reanalysis. Upon reanalyzing sample SCP-104 for low level dissolved cadmium and low level mercury, the laboratory obtained reanalyzed low level dissolved cadmium and low level mercury results which confirmed their original low level dissolved cadmium and low level mercury results for sample SCP-104.

**Results for External Quality Assurance Samples
Incorporated by the Environmental Monitoring Branch**

Holding Time

With the exception of the EPA method 525.2 parameters (semi-volatile organic compounds) for sample SCP-090, all the parameters were prepared and analyzed within their holding times. Sample SCP-090 was prepared for the EPA method 525.2 parameters (semi-volatile organic compounds) two days past EPA method 525.2's 14 day preparation holding time.

Completeness

The laboratories performed all the requested analyses and provided all the results for the samples; however, some data was qualified. 100% completeness was achieved.

Laboratory Quality Control (QC)

The review of the laboratory QC check samples included an evaluation of accuracy, precision, and contamination (e.g. laboratory control samples, duplicates, blanks etc.). All laboratory QC check samples incorporated with the project's inorganic samples were acceptable.

Due to the laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) demonstrating an excessive difference in results for acenaphthylene, all samples analyzed with these laboratory check samples have had their acenaphthylene results qualified as possibly varying excessively from their true values ("V" qualification). In this case, the only sample analyzed with these laboratory check samples was sample SCP-088.

The surrogate "perylene-d12" demonstrated an unacceptably low recovery on sample SCP-088. As a result, the parameters [Benzo(a)pyrene, Benzo(b)Fluoranthene, Benzo(g,h,i)Perylene, Benzo(k)Fluoranthene, Chrysene, Di-(2-Ethylhexyl)phthalate, Dibenz(a,h)Anthracene, Di-N-octylphthalate, Indeno(1,2,3,c,d)Pyrene, Methoxychlor, and Permethrin(mixed isomers)] associated with this surrogate have had their results qualified as possibly being biased low for this sample ("L" qualification).

Due to the laboratory control spike (LCS) demonstrating unacceptably low recoveries for acenaphthylene and aldrin and the laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) demonstrating unacceptable precision for acenaphthylene and aldrin, all samples analyzed with these laboratory check samples have had their acenaphthylene and aldrin results qualified as possibly being biased low and possibly varying excessively from their true values ("LV" qualification). In this case, the only sample analyzed with these laboratory check samples was sample SCP-090.

Due to the laboratory control spike (LCS) demonstrating an unacceptably low recovery for acenaphthylene, all samples analyzed with this laboratory control spike (LCS) sample have had their acenaphthylene results qualified as possibly being biased low ("L" qualification). The samples analyzed with this LCS sample were SCP-093, 094, 095, 096, 097, 098, 099, 100, 101, 103, and 104.

For the batch associated with samples SCP-093, 094, 095, 096, 097, 098, 099, 100, 101, 103, and 104; the laboratory control spike (LCS) and its duplicate (LCSD) demonstrated an unacceptably low recovery for aldrin. As a result, the aldrin results for samples SCP-093, 094, 095, 096, 097, 098, 099, 100, 101, 103, and 104 were qualified as possibly being biased low ("L" qualification).

For the batch associated with samples SCP-093, 094, 095, 096, 097, 098, 099, 100, 101, 103, and 104; the laboratory control spike (LCS) and its duplicate (LCSD) demonstrated an excessive difference in their results for caffeine and dimethoate. As a result, the caffeine and dimethoate results for samples SCP-093, 094, 095, 096, 097, 098, 099, 100, 101, 103, and 104 were qualified as possibly varying excessively from their true caffeine and dimethoate values ("V" qualification).

General Comment

For data which is qualified, the data user should determine if it is usable for its intended purpose based on how it is qualified.