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Los Alamos
NATIONAL LABORATORY
EST. 1943

Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)
P.O. Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666

National Nuclear Security Administration
Los Alamos Site Office, A316
3747 West Jemez Road
Los Alamos, New Mexico 87545
(505) 667-5794/FAX (505) 667-5948

Date: DEC 20 2012
Refer To: ENV-RCRA-12-0272
LAUR: 12-26859

Mr. Jerry Schoeppner, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2261
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

RECEIVED
DEC 2012
NMED Hazardous Waste Bureau

Dear Mr. Schoeppner:

SUBJECT: DISCHARGE PERMIT DP-857 APPLICATION AMENDMENTS, DOMESTIC AND INDUSTRIAL WASTEWATER DISCHARGES

In accordance with direction from New Mexico Environment Department Ground Water Quality Bureau staff (personal communication, October 16, 2012), the US Department of Energy and Los Alamos National Security, LLC (DOE/LANS) are submitting the enclosed amendments to the June 30, 2010, application for renewal and modification of Discharge Permit DP-857 (ENV-RCRA-10-127). It is necessary for DOE/LANS to amend the June 2010 Discharge Permit application because of operational changes at Los Alamos National Laboratory since the application was submitted. The principal changes that have occurred since June 2010 are:

- Expansion of the Sanitary Effluent Reclamation Facility.
- Expansion of the Sigma Mesa Evaporation Basins.
- Commissioning of the effluent reuse system.

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The enclosed amendments to the June 2010 application are limited to the following portions of the original application: Parts A, B, and C of the NMED application form; and Appendix B. A copy of those portions of the June 30, 2010, Discharge Permit application—unamended—has been provided for your convenience in Enclosure 1. Amendments to the June 30, 2010, application are provided in Enclosure 2.

Please call Robert Beers at (505) 667-7969 if you have questions regarding this amended Discharge Permit application.

Sincerely,

Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security, LLC

Sincerely,

Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Site Office
National Nuclear Security Administration

Enclosures:

1. Copy the relevant portions of the June 30, 2010, Discharge Permit DP-857 Application
2. Amendments to the June 30, 2010, Discharge Permit DP-857 Application for Modification and Renewal

Cy: Bruce Yurdin, NMED/SWQB, Santa Fe, NM, w/enc.
John E. Kieling, NMED/HWB, Santa Fe, NM, w/enc.
Stephen M. Yanicak, NMED/DOE/OB, w/enc., (E-File)
Kevin W. Smith, LASO-OOM, w/enc., A316
Gene E. Turner, LASO-EPO, w/enc., (E-File)
Hai Shen, LASO-EPO, w/enc., (E-File)
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, ADESH, w/o enc., (E-File)
Alison M. Dorries, ENV-DO, w/o enc., (E-File)
Michael T. Saladen, ENV-RCRA, w/enc., (E-File)
Robert S. Beers, ENV-RCRA, w/enc., K490
Andrew W. Erickson, UI-DO, w/enc., (E-File)
Lawrence V. Chavez, UI-OPS, w/enc., (E-File)
Mell A. Smithour, ES-UI, w/enc., (E-File)
IRM-RMMSO, w/enc., (E-File)
ENV-RCRA Correspondence File, w/enc., K490

ENCLOSURE 1

Copy the relevant portions of the June 30, 2010, Discharge Permit DP-857 Application

ENV-RCRA-12-0272

LAUR-12-26859

Date: DEC 20 2012

NEW MEXICO ENVIRONMENT DEPARTMENT
GROUND WATER QUALITY BUREAU

DISCHARGE PERMIT APPLICATION

Type of Application. Check appropriate box.

- ☐ Application for new Discharge Permit – new facility
- ☐ Application for new Discharge Permit – existing (unpermitted) facility
- ☐ Application for Discharge Permit Renewal
- ☐ Application for Discharge Permit Modification
  "Modification" is defined as a change to the permit requirements that result from a change in the location of the discharge, a significant increase in the quantity of the discharge, or a significant change in the quality of the discharge.
- ☒ Application for Discharge Permit Renewal and Modification. **See Appendix A: Application for Renewal of DP-857, August 27, 2002.**

For an existing Discharge Permit, please indicate: DP Number **857** Expiration date **01/07/2003**

Checklist of Application Components.

☒Part A: Administrative Completeness.	*Instructions for completing the application are included on the form itself and on Supplemental Instructions for Parts A and B. You may fill out the application manually, or a Microsoft Word version may be downloaded from www.nmenv.state.nm.us (Ground Water Quality) and filled out electronically.*
☒ Part B: Operational, Monitoring, Contingency and Closure Plans, with required attachments. *Choose appropriate option:* ☐ Septic Tank System ☒ General – Various Facility Types	
☒ Part C: Site Information, with required attachments.	
☒ $100 Filing Fee, payable to the New Mexico Environment Department. *Required from all applicants.* An additional fee will be assessed prior to permit issuance. Permit fees are listed in Section 20.6.2.3114 NMAC.	

Certification. Signature must be that of the person named in Item A-3 of Part A of the application.
I certify under penalty of law that I am knowledgeable about the information contained in this application. The information is, to the best of my knowledge and belief, true, accurate and complete.

Signature: [signature] Date: 6/30/2010

Printed Name: **James C. Cantwell, Associate Director** Title: **ESH&Q, LANS**

Signature: [signature] Date: 7/1/10

Printed Name: **Donald L. Winchell Jr., Manager** Title: **Los Alamos Site Office, NNSA**

Send three complete copies of this application and the filing fee to:

Program Manager
Ground Water Pollution Prevention Section
New Mexico Environment Department
PO Box 5469
Santa Fe, NM 87502

GROUND WATER DISCHARGE PERMIT APPLICATION
PART A: ADMINISTRATIVE COMPLETENESS
All Facilities

A-1. Facility Information. See Supplemental Instructions to determine what constitutes the "facility." The physical location of the facility must be provided. If the facility does not have an address, the location can be described by road intersections, mile posts, or landmarks, as appropriate.

Facility Name	**Los Alamos National Laboratory**
Former Names (if any)	**NA**
Physical address/location *(mandatory)*	**Los Alamos, New Mexico**
	County **Los Alamos**
Mailing address	**P.O. Box 1663, MS K490**
	Los Alamos, NM 87544
Contact person	**James C. Cantwell**
Title	**Associate Director, Environment, Safety, Health & Quality, LANS, LLC**
Telephone number(s)	**(505) 667-5491**
Fax number	**(505) 665-3811** E-mail address **cantwe@lanl.gov**

A-2. Type of Discharge and Type of Facility. See Supplemental Instructions.

Type of discharge: ☒ Domestic ☐ Agricultural ☐ Industrial ☐ Mining

Type of facility: **Sanitary wastewater treatment plant and effluent reuse system.**

A-3. Applicant Information. The applicant is the person or entity (e.g., corporation, partnership, organization, municipality, etc.) legally responsible for the discharge and for complying with the terms of the Discharge Permit. If the applicant is an entity, then the name and title of a contact person must be provided. This application must be signed by the applicant or contact person named here.

Applicant Name	**National Nuclear Security Administration (NNSA)[1]**
	Los Alamos National Security, LLC (LANS)[2]
Mailing address	**[1]3747 West Jemez Road, Los Alamos, NM 87544**
	[2]P.O. Box 1663, MS K491, Los Alamos, NM 87544
Contact person	**Donald L. Winchell Jr.[1], Manager, Los Alamos Site Office, NNSA**
	James C. Cantwell[2], Associate Director, ESH&Q, LANS
Telephone number(s)	**[1](505) 667-5105 [2](505) 667-4218**
Fax number	**[1]665-3811** E-mail address dwinchell@doeal.gov
	[2]845-5942 cantwe@lanl.gov

A-4. Consultant Information (If applicable). If the consultant is a company or organization, then the name and title of a contact person must be provided.

Consultant/Firm Name **NA**

A-5. Permit Contact Information (If applicable). If someone other the applicant listed in Item A-3 or a consultant listed in Item A-4 is a primary contact for this application and/or facility, list here.

Permit Contact Name **Robert Beers**

Title **Environmental Professional, Water Quality & RCRA Group, LANS**

Mailing address **P.O. Box 1663 MS K490, Los Alamos, NM 87544**

Telephone number(s) **(505) 667-7969**

Fax number **(505) 665-9344** E-mail address **bbeers@lanl.gov**

A-6. Ownership.

The applicant owns (check as appropriate): ☒ the facility** ☐ some discharge sites ☐ all discharge sites

**** National Nuclear Security Administration (NNSA) Facility**

A-7. Discharge Quantity.

Your Discharge Permit will specify a maximum discharge volume, which is typically expressed as the maximum number of gallons per day that may be treated and/or disposed of. Please indicate below the maximum discharge volume for your facility. You must show how it was determined in Part B of your application. For further explanation, see Supplemental Instructions for Part B.

Maximum discharge volume: **Design Flow: 600,000** gallons per day (or other units:)

A-8. Processing, Treatment, Storage and Disposal System. Briefly describe how wastewater, sludge, etc. is processed, treated, stored, and/or disposed of at your facility. See Supplemental Instructions for examples of system components.

The design flow of the TA-46 Sanitary Wastewater Systems (SWWS) Plant is 600,000 gallons per day of domestic wastewater. Treatment is by extended aeration, clarification, and chlorination (See Process Diagram, Appendix B). Sludge is dried on-site in synthetically-lined drying beds and shipped off-site for disposal. Treated and disinfected effluent is stored in a synthetically-lined impoundment for either (1) discharge at NPDES Outfall 001 in Sandia Canyon, (2) treatment at the TA-3 Sanitary Effluent Reclamation Facility (SERF) for subsequent reuse, (3) used on-site for landscape irrigation, or (4), if necessary, discharged to Cañada del Buey. Since the TA-46 SWWS Plant began operating in 1992, no effluent has been discharged to Cañada del Buey.

Under current operations, all treated effluent—with the exception of that used for turf irrigation between the months of March and October—is pumped via force main to TA-3 for discharge at NPDES Outfall 001 or treatment by SERF. The SERF receives treated effluent from the TA-46 SWWS Plant for treatment by microfiltration and reverse osmosis (RO). Concentrate or reject wastewater from the RO unit is discharged to the synthetically-lined evaporation basins on Sigma Mesa. Product water from the SERF RO unit is blended with treated TA-46 SWWS Plant effluent, at roughly a 2:1 ratio, for subsequent reuse by the TA-3 Supercomputing Complex (SCC) cooling towers. Wastewater from the SCC cooling towers is discharged to Sandia Canyon at NPDES Outfall 03A027. See Appendix B for a schematic of the effluent reuse system.

LANL has initiated planning and design for an expansion of the effluent reuse system. The objectives are three fold: (1) the conservation of potable water, (2) a volume reduction in wastewater discharges to the environment, and (3) a reduction in NPDES permitted outfalls. Presently, two expansion options have been identified: partial reuse or full reuse. Schematics of both options are presented in Appendix B.

Both the partial reuse and full reuse options will require an increase in SERF's treatment capacity from the current 140,000 gal per day (gpd) of RO product to an estimated 300,000 gpd. Accordingly, the expansion of SERF may necessitate an expansion of the Sigma Mesa Evaporation Basins by 2-3 times their current acreage. With the additional treatment capacity at SERF, the reuse system can be expanded to other large users of potable water, such as the LDCC cooling towers and the Power Plant (Appendix B).

Outfall reduction will be achieved under the expanded reuse system through the discharge of cooling tower and power plant wastewater to either the TA-46 SWWS Plant and/or to the SERF (Appendix B).

Increasing the volume of cooling water to the SWWS Plant will result in lower Biological Oxygen Demand (BOD) influent concentrations in the plant's influent. In order to counter this, LANL will implement in 2010 a pilot study to evaluate the effectiveness of systematic increases in BOD, up to the TA-46 SWWS Plant's design specification, via the addition of crude glycerol (glycerin). Increasing influent BOD will allow for a more robust microorganism population and therein improve plant operations.

A-9. **Discharge Locations.** List the locations of your facility and of all components of your processing, treatment, storage and/or disposal system. Examples of components include septic tanks, lagoons, leachfields, irrigation sites, mine stockpiles, etc. Additional examples are listed in the Supplemental Instructions. Latitude and longitude are optional unless township, range and section are not available.

TREATMENT SYSTEMS, NPDES OUTFALLS, AND WASTEWATER SOURCES							
TA	BLDG	DESCRIPTION	Township	Range	Section	Latitude	Longitude
46	336	SWWS Plant	T19N	R06E	26	35.852575	-106.277168
3	1398	SERF	T19N	R06E	16	35.874724	-106.318052
60	221/222	SERF Evaporation Basins	T19N	R06E	22	35.868337	-106.296561
3	336	Reuse Tank	T19N	R06E	16	35.874649	-106.319198
3	NA	NPDES Outfall 001	T19N	R06E	16	35.873960	-106.319414
3	NA	NPDES Outfall 03A027	T19N	R06E	16	35.873968	-106.319274
3	NA	NPDES Outfall 03A199	T19N	R06E	17	35.876052	-106.322078
3	2327	SCC Cooling Towers	T19N	R06E	17	35.874134	-106.326975
3	1837	LDCC Cooling Towers	T19N	R06E	17	35.875882	-106.323164
3	22	Power Plant	T19N	R06E	17	35.874302	-106.320567
55	6	TA-55 Cooling Tower	T19N	R06E	22	35.863905	-106.302020
35	124	TA-35 Cooling Tower	T19N	R06E	22	35.862845	-106.296467
3	2238	Sigma Facility Cooling Tower	T19N	R06E	21	35.871767	-106.317088
ACTIVE HOLDING TANKS AS OF 6/25/2010							
11	20	SW of Bldg. TA-11-1	T19N	R06E	32	35.838318	-106.325622
11	43	S. of Bldg. TA-11-3	T19N	R06E	32	35.838102	-106.325050
15	62	S. of Bldg. TA-15-44	T19N	R06E	27	35.843620	-106.290629
16	819	NW of Bldg. TA-16-332	T19N	R06E	30	35.844437	-106.350037
16	1508	NE of Bldg. TA-16-1507	T19N	R06E	29	35.848262	-106.333537
21	9000-9003	Construction Trailers	T19N	R06E	14	35.877794	-106.279114
36	249	White Rock check Station	T18N	R07E	5	35.824309	-106.224445
40	24	SE of Bldg. TA-40-90	T19N	R06E	21	35.858462	-106.317876
49	118	115' NE OF TA-49-115	T18N	R06E	4	35.823551	-106.304830
49	173	SE of Bldg. Ta-49-153	T18N	R06E	4	35.826761	-106.317337
54	351/352	NE of Bldg. TA-54-367	T19N	R07E	31	35.830249	-106.234918
54	16	N. of Bldg. TA-54-11	T19N	R07E	31	35.832101	-106.240376
64	66	N. of Bldg. 64-64	T19N	R06E	21	35.866516	-106.313922
69	10	N. of Bldg. TA-69-1	T19N	R06E	19	35.869547	-106.346195
69	46	NW of Bldg. TA-69-33	T19N	R06E	19	35.869852	-106.349141
72	18	E. of Bldg. TA-72-36	T19N	R06E	24	35.863357	-106.249081
72	Toilet Trailer	Truck Check Station	T19N	R07E	20	35.858670	-106.228320

A-10. Discharge Quality.

Indicate the expected quality of the discharge -- wastewater, leachate, sludge, etc. -- generated, stored, treated, processed and/or discharged at your facility. List the contaminants of concern and the expected concentrations. *Not all facilities need to characterize influent quality.* See Supplemental Instructions for typical contaminants and additional guidance.

Effluent Quality, TA-46 SWWS Plant, and NPDES Outfalls 001 and 03A027, 2009-2010.

Sampling Location	Field Prep	Date	TDS (mg/L)	Chloride (mg/L)	NO3+NO2-N (mg/L)	TKN (mg/L)	NH3-N (mg/L)
SWWS Plant Reuse Wet Well[1]	UF	02/23/10	652	216	1.97	1.26	0.08
SWWS Plant Reuse Wet Well[1]	UF	11/18/09	554	186	2.7	0.73	0.07
SWWS Plant Reuse Wet Well[1]	UF	08/20/09	482	131J+	1.0	0.949J-	<0.037
SWWS Plant Reuse Wet Well[1]	UF	6/2/2009	532	158	0.18	0.43	0.02J
SWWS Plant Reuse Wet Well[1]	UF	2/24/2009	617	217	4.7	0.84	0.05
NPDES Outfall 001	UF	02/23/10	598	37.6	1.38	0.051J	0.016J
NPDES Outfall 001	UF	11/18/09	514	148	1.24	0.69	0.16
NPDES Outfall 001	UF	08/20/09	422	109J+	0.80	0.822J-	<0.039
NPDES Outfall 001	UF	6/2/2009	448	115	0.45	0.51	0.06
NPDES Outfall 001	UF	2/24/2009	520	18.5	0.95	1.4	0.23
NPDES Outfall 03A027	UF	02/23/10	662	119	0.66	0.55	0.035J
NPDES Outfall 03A027	UF	11/18/09	488	15.7	1.41	1.2	0.03
NPDES Outfall 03A027	UF	08/20/09	452	13.2J+	0.81	1.43J-	<0.037
NPDES Outfall 03A027	UF	6/2/2009	455	8.95	0.72	0.85	0.02J
NPDES Outfall 03A027	UF	2/24/2009	521	149	4.5	0.73	0.10

Notes:

[1]Water in the reuse wet well is representative of water in the reuse pond.

J- means that the reported value is expected to be more uncertain than usual with a potential negative bias.

J+ means that the reported value is expected to be more uncertain than usual with a potential positive bias.

J means the reported value is greater than the Method Detection Limit (MDL) but less than the Reporting Limit (RL).

Effluent Quality, PCBs, TA-46 SWWS Plant, 2009.

Location Name	Start Date	Analyte	Fld Prep Code		Std Result	Units
SWS Facility Reuse Well	8/20/09	Aroclor-1016	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1221	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1232	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1242	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1248	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1254	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1260	UF	<	0.10	ug/L
SWS Facility Reuse Well	8/20/09	Aroclor-1262	UF	<	0.10	ug/L

Effluent Quality, All Detections of VOCs and SVOCs, TA-46 SWWS Plant, 2009.

Location Name	Start Date	Analyte Desc	Fld Prep Code		Std Result	Units
SWS Facility Reuse Well	8/20/09	Bromodichloromethane	UF		33.9	ug/L
SWS Facility Reuse Well	8/20/09	Bromoform	UF		2.2	ug/L
SWS Facility Reuse Well	8/20/09	Butanone[2-]	UF		3.28J	ug/L
SWS Facility Reuse Well	8/20/09	Chlorodibromomethane	UF		17.1	ug/L
SWS Facility Reuse Well	8/20/09	Chloroform	UF		32.1	ug/L

J means the reported value is greater than the Method Detection Limit (MDL) but less than the Reporting Limit (RL).

Effluent Quality, Radiologicals, TA-46 SWWS Plant, 2009.

Location Name	Start Date	Analyte Desc	Fld Prep Code		Std Result	Units
SWS Facility Reuse Well	8/20/09	Radium-226	UF	<	0.37	pCi/L
SWS Facility Reuse Well	8/20/09	Radium-228	UF	<	0.62	pCi/L

Effluent Quality, Metals and General Inorganics, TA-46 SWWS Plant, 2009.

Sample Location	Sample Date	Analyte	Lab Code		Std Result	Units	Std Mdl
SWS Facility Reuse Well	08/20/09	CN(TOTAL)	F		0.003J	mg/L	0.0017
SWS Facility Reuse Well	08/20/09	ClO4	UF		0.418	ug/L	0.05
SWS Facility Reuse Well	08/20/09	F(-1)	UF		0.51	mg/L	0.033
SWS Facility Reuse Well	08/20/09	SO4(-2)	UF		17.2J+	mg/L	0.1
SWS Facility Reuse Well	08/20/09	pH	UF		7.68HJ-	SU	0.01
SWS Facility Reuse Well	08/20/09	Ag	F	<	1	ug/L	0.2
SWS Facility Reuse Well	08/20/09	Al	F	<	200	ug/L	68
SWS Facility Reuse Well	08/20/09	As	F		2.47J	ug/L	1.5
SWS Facility Reuse Well	08/20/09	B	F		76.7	ug/L	15
SWS Facility Reuse Well	08/20/09	Ba	F		7.7	ug/L	1
SWS Facility Reuse Well	08/20/09	Be	F	<	5	ug/L	1
SWS Facility Reuse Well	08/20/09	Cd	F	<	1	ug/L	0.11
SWS Facility Reuse Well	08/20/09	Co	F	<	5	ug/L	1
SWS Facility Reuse Well	08/20/09	Cr	F		2.86J	ug/L	2.5
SWS Facility Reuse Well	08/20/09	Cu	F		3.5J	ug/L	3
SWS Facility Reuse Well	08/20/09	Fe	F		65J	ug/L	30
SWS Facility Reuse Well	08/20/09	Hg	F	<	0.2	ug/L	0.066
SWS Facility Reuse Well	08/20/09	Hg	UF	<	0.2	ug/L	0.066
SWS Facility Reuse Well	08/20/09	Mn	F		21.9	ug/L	2
SWS Facility Reuse Well	08/20/09	Mo	F		14.7	ug/L	0.1
SWS Facility Reuse Well	08/20/09	Ni	F		1.46J	ug/L	0.5
SWS Facility Reuse Well	08/20/09	Pb	F	<	2	ug/L	0.5
SWS Facility Reuse Well	08/20/09	Se	F	<	5	ug/L	1
SWS Facility Reuse Well	08/20/09	U	F		0.067J	ug/L	0.05
SWS Facility Reuse Well	08/20/09	Zn	F		71.9	ug/L	3.3

Notes:

J- means that the reported value is expected to be more uncertain than usual with a potential negative bias.

J+ means that the reported value is expected to be more uncertain than usual with a potential positive bias.

J means the reported value is greater than the Method Detection Limit (MDL) but less than the Reporting Limit (RL).

A-11. Ground Water Conditions.

All applicants must provide the depth to and pre-discharge TDS concentration of the ground water that could be affected by the discharge. Refer to Supplemental Instructions for details on how to obtain these values.

Indicate the depth to the most shallow ground water beneath the discharge site. If there are multiple discharge sites, indicate the range of depths.	Indicate pre-discharge total dissolved solids (TDS) concentration of most shallow ground water beneath the discharge site. Attach copies of analyses.
Depth to water (feet): **See Appendix E-Maps**	TDS (mg/L): **Alluvial: Max=3800, Min=115, Avg=306**
Reference: ☒ Measurement, nearby monitoring well ☐ Measurement, nearby supply well ☐ Well log from nearby well (attach copy) ☐ Office of the State Engineer http://www.ose.state.nm.us/ ☐ Report or study (give citation here and attach relevant portion): ☐ Other (describe):	Reference: ☒ Analysis from upgradient monitoring well ☐ Analysis from on-site supply well ☐ Analysis from shallow nearby supply well ☐ Concentration provided in previous Discharge Permit application ☒ Report or study (give citation here and attach relevant portion): **See Appendix D (CD), 2008 LANL Environmental Surveillance Report** ☐ Other (describe):

A-12. Public Notice. See Supplemental Instructions.

a) The public notice packet including instructions and materials should be sent to:

☐ Applicant ☐ Consultant ☒ Other: **Permit Contact (A-5)**

b) Copies of the public notice packet (excluding sign) should be sent to:

☐ Applicant ☐ Consultant ☒Other: **Permit Contact (A-5)**

c) The applicant is required to provide public notice of this application by placing a display ad in a newspaper of general circulation near the location of the proposed discharge. Indicate newspaper you intend to place the ad in:

Newspaper: **Los Alamos Monitor**

d) *For new or modification applications only:* The applicant must post a sign for 30 days in a conspicuous location at or near the facility, as approved by NMED. One sign must be posted for each 640 contiguous acres or less of the discharge site. An additional notice must be posted at an off-site location conspicuous to the public. Describe the locations below where you intend to post the notices. You may also attach sketches or photographs.

At or near facility: **40 signs—2 by 3 feet in size—will be posted around the perimeter of LANL at all major & minor points of entry and egress**

Off-site location: **A flyer size notice will be posted at the LANL Public Reading Room, J. Robert Oppenheimer Study Center and Research Library, located on West Jemez Road at Casa Grande, Los Alamos, NM**

GROUND WATER DISCHARGE PERMIT APPLICATION
PART B: OPERATIONAL, MONITORING, CONTINGENCY AND CLOSURE PLANS
GENERAL FORM (VARIOUS FACILITY TYPES)

Operational Plan *[Section 20.6.2.3106.C, 3109.C NMAC]*

B-1. Source(s) of the Discharge. Describe what generates the wastewater, sludge or other discharges processed and/or disposed of at your facility. Identify all sources. Attach additional pages, if needed. See Supplemental Instructions.

See Appendix B, Tables 1-4, for the sources, characteristics, and volumes of all discharges to the TA-46 SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and discharges/transfers within the effluent reuse system.

B-2. Discharge Quantity. Describe the methods/calculations used to determine the maximum discharge volume listed in Item A-6 in Part A of your application. Attach additional pages, if needed. See Supplemental Instructions.

See Appendix B, Tables 1-4, for the sources, characteristics, and volumes of all discharges to the TA-46 SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and discharges/transfers within the effluent reuse system.

B-3. Site Map. Attach a site map showing the components of your proposed system and relevant surrounding features, clearly labeled, such as:

- treatment units
- lagoons
- tanks
- sumps
- manure separators
- land application fields
- domestic wastewater reuse areas
- pits
- stockpiles
- leachfields
- sludge drying beds
- roads
- buildings
- supply wells
- monitoring wells
- extraction/injection wells
- arroyos
- nearby water bodies such as ponds or canals
- property boundaries
- other permitted discharges
- required setbacks
- north arrow

If map is not to scale, mark distances on the map.

☒ Site map is attached. **See Appendix E-Maps.**

B-4. Flood Protection. Describe the methods used to prevent flooding and run-off at the facility (tank protection, berms, diversion channels, etc.)

The TA-46 SWWS Plant, the SERF, and the Sigma Mesa evaporation basins are located outside of the 100-yr floodplain. Source: LANL Floodplain Maps.

Additional information on the TA-46 SWWS Plant's site drainage was submitted in Appendix 2 of the April 1992 TA-46 SWWS Plant Discharge Plan Application.

B-5. Plans and Specifications. For new facilities and for new components of existing systems, attach plans and specifications certified by a New Mexico registered professional engineer. *[Section 20.6.2.1202 NMAC]*

☒ Not applicable because no new facilities are proposed.

☐ Plans and specifications are attached.

☐ Plans and specifications were previously submitted. Submittal date(s): _____

B-6. Description of Components. Provide descriptive details of all components of your processing, treatment, storage and/or disposal system. Include all components listed under Item A-8 in Part A.

Component	Description (construction material, liner type, irrigation method, capacity, dimensions, area, etc.)
SWWS Plant collection system	Pipelines, manholes, lift stations
SWWS Plant entrance works	Parshall flume, mechanical bar screen, aerated grit chamber
Sanitary holding tanks	17 holding tanks receiving wastewater for discharge to SWWS Plant
SWWS Plant equalization basins	Two equalization basins for balancing day/night flows
SWWS Plant aeration basins	Four aeration basins for nitrification/denitrification
SWWS Plant secondary clarifiers	Two clarifiers to separate treated water from return activated sludge
SWWS Plant chlorine contact chamber	Disinfection of effluent with MIOX™ mixed oxidants
SWWS Plant NPDES Outfall 13S	Parshall flume, totalizing meter, and programmable sampler
SWWS Plant sludge drying beds	Synthetically-lined drying beds for waste sludge from the clarifiers
SWWS Plant holding pond & reuse pumps	Synthetically-lined pond for treated effluent & reuse pumps to TA-3
SWWS Plant gravity discharge	Parshall flume for gravity discharge to Cañada del Buey
Sandia Canyon NPDES Outfall 001	Unused SWWS Plant effluent discharged to NPDES Outfall 001
Sanitary Effluent Reclamation Facility (SERF)	Microfiltration followed by reverse osmosis (RO)
Sigma Mesa evaporation basins	Synthetically-lined evaporation basins(2) with leak detection
TA-3 SCC cooling towers	Cooling tower receiving blended product/effluent from SERF/SWWS
TA-3 LDCC cooling towers—Future Reuse Site	Cooling tower receiving blended product/effluent from SERF/SWWS
TA-3 Power Plant—Future Reuse Site	Boilers receiving RO product water from SERF
TA-55 cooling tower—Future Reuse Site	Cooling tower discharging to either SERF or the SWWS Plant
Sigma Facility cooling tower—Future Reuse Site	Cooling tower discharging to the SWWS Plant
Sandia Canyon NPDES Outfall 03A027	SCC cooling towers discharge to NPDES Permitted Outfall 03A027
Sandia Canyon NPDES Outfall 03A199	LDCC cooling towers discharge to NPDES Permitted Outfall 03A199
Sandia Canyon NPDES Outfall 001	Power plant boilers discharge to NPDES Permitted Outfall 001

B-7. Operational Plan. Attach a detailed description of how you operate your processing, treatment, storage and/or disposal system.

Animal feeding operations: include stormwater management, nutrient management plans, method for mixing irrigation and wastewater.

Domestic wastewater treatment facilities: include pre-treatment, solids management, vegetation management for land application.

Facilities using reclaimed domestic wastewater above ground: include proposed water quality classification(s), effluent monitoring, setbacks, irrigation schedules, etc. that will result in protection of public health and the environment. Please refer to *NMED Ground Water Quality Bureau Guidance: Above-Ground Use of Reclaimed Domestic Wastewater* for further information. A copy of the guidance document is available on the NMED website www.nmenv.state.nm.us under "Ground Water Quality".

☒ Operational plan is attached. **See Appendix C (CD).**

☐ Operational plan was previously submitted. Submittal date(s): _____

B-8. System Maintenance. Attach a description of the operations and maintenance procedures which ensure that your processing, treatment and disposal system functions properly; e.g., inspections, pumping schedules, equipment maintenance, etc.

☒ O & M procedures are attached. **See Appendix C (CD).**

☐ O & M procedures were previously submitted. Submittal date(s): _____

B-9. Backflow Prevention. If wastewater is used for ~~land application~~ or **irrigation**, describe methods used to protect wells from contamination by wastewater backflow. For new facilities or new systems at an existing facility, only air gap or reduced pressure valve assemblies are acceptable methods.

a) Clearly describe and/or sketch the location of air gaps or devices and attach specifications.

A reduced pressure backflow prevention device isolates the reuse and potable water systems.

b) Describe how devices are maintained.

Annual inspections are conducted on all LANL backflow prevention devices.

B-10. Water Rights. Animal feeding operations which land apply wastewater must attach documentation of irrigation water rights for the proposed land application fields, sufficient to sustain the intended crop rotation.

☐ Water right documentation is attached.

☒ Not applicable.

B-11. Past Ground Water Monitoring Results. *This item applies only to existing facilities seeking renewal and/or modification of a Discharge Permit that required ground water monitoring.*

a) Attach a graph or a table showing all analytical results from ground water sampling at your facility. If preparing graphs, a separate graph should be developed for each constituent, except that nitrate and TKN may be shown on the same graph. Multiple wells may be shown on the same graph. See Supplemental Instructions for sample table and graph. **Appendix D presents graphs of Sandia Canyon alluvial, intermediate and regional aquifer groundwater quality from 2007-2010. Relatively present-day groundwater is represented by Sandia Canyon's alluvial wells and intermediate well SCI-1; in contrast, older waters representing pre-SWWS Plant discharges to Sandia Canyon occur at intermediate well SCI-2 and the regional aquifer wells.**

b) If the monitoring results indicate that ground water standards have been violated or that there is an upward trend approaching standards, attach a description of what actions you have taken or will take to address the elevated concentrations. Ground water standards are listed in Section 20.6.2.3103 NMAC. See the Supplemental Instructions for frequently referenced standards. **A detailed discussion of Sandia Canyon groundwater quality is presented in Chapter 5, Pages 161-164, of the Laboratory's 2008 Environmental Surveillance Report (See Appendix D).**

Monitoring Plan *[Section 20.6.2.3107.A NMAC]*

B-12. Discharge Volumes. Describe how and where the monthly discharge volume at your facility will be. For all measuring devices, provide type, location, and units of measure including multipliers (e.g., gallons, gallons x 100, acre-ft, etc.) See Supplemental Instructions. Attach additional pages, if necessary.

Location	Type	Units of Measure
Headworks (Influent)	Parshall flume w/ultrasonic level sensor	gallons X 1000000
Equalization Basin	Parshall flume w/ultrasonic level sensor	gallons X 1000000
Return Activated Sludge (RAS)	Parshall flume w/ultrasonic level sensor	gallons X 1000000
Waste Activated Sludge (WAS)	Calculated	gallons
Treated Wastewater (13S)	Parshall flume w/ultrasonic level sensor	gallons X 1000000
Reuse (force main to TA-3)	In-line flow meter downstream of reuse pump	gallons X 1000000
Treated Wastewater (001)	Parshall flume w/ultrasonic level sensor	gallons X 1000000
Treated Wastewater (03A027)	In-line totalizing meter at the SSC cooling towers	gallons

B-13. Discharge Quality Monitoring. Discharge Permits typically require that the discharge (treated wastewater, sludge, septage, etc.) be sampled on a regular basis. The frequency of sampling varies by type of facility, as do the contaminants of concern. Domestic and agricultural Discharge Permits typically require sampling for total Kjeldahl nitrogen (TKN), nitrate-nitrogen (NO_3-N), total dissolved solids (TDS) and chloride on a quarterly or semi-annual basis. *(continued on next page)*

If reclaimed domestic wastewater will be discharged for above ground uses, testing of the discharge for additional parameters is appropriate. Please refer to the *NMED Ground Water Quality Bureau Guidance: Above-Ground Use of Reclaimed Domestic Wastewater* for further information.

In the space below, provide a description or sketch of the sampling point(s) to be used for sampling the discharge at your facility.

Discharge quality monitoring is currently conducted under Discharge Permit DP-857 at the following locations: (1) TA-46 SWWS Plant Reuse Wet Well, (2) NPDES Outfall 001, and (3) NPDES Outfall 03A027.

See the following NMED communications (Appendix A) for additional detail: January 1998 Discharge Permit DP-857 Renewal and October 2002 Discharge Permit DP-857 Modification.

B-14. Ground Water Quality Monitoring. Discharge Permits typically require that ground water samples be collected quarterly from properly constructed monitoring wells located downgradient from discharge locations. The samples must be analyzed for contaminants of concern. For most domestic and agricultural Discharge Permits, the typical contaminants of concern are total Kjeldahl nitrogen (TKN), nitrate-nitrogen (NO_3-N), total dissolved solids (TDS) and chloride.

Groundwater monitoring at LANL is predominantly conducted under the following three programs:

1. **Discharge Permit DP-857 monitoring per NMED renewal and modification permits (Appendix A).**
2. **Surveillance monitoring of Los Alamos County's 12 regional aquifer water supply wells.**
3. **Consent Order monitoring per the 2009 Interim Facility-Wide Groundwater Monitoring Plan.**

The programs referenced above are discussed in additional detail below.

Discharge Permit DP-857 Monitoring. Quarterly monitoring is conducted at alluvial well CDBO-6 and reported to the NMED in discharge permit reports (See Appendix A). Water quality data are posted to the publicly accessible web site www.racernm.com and published annually in the Laboratory's Environmental Surveillance Report (See Appendix D).

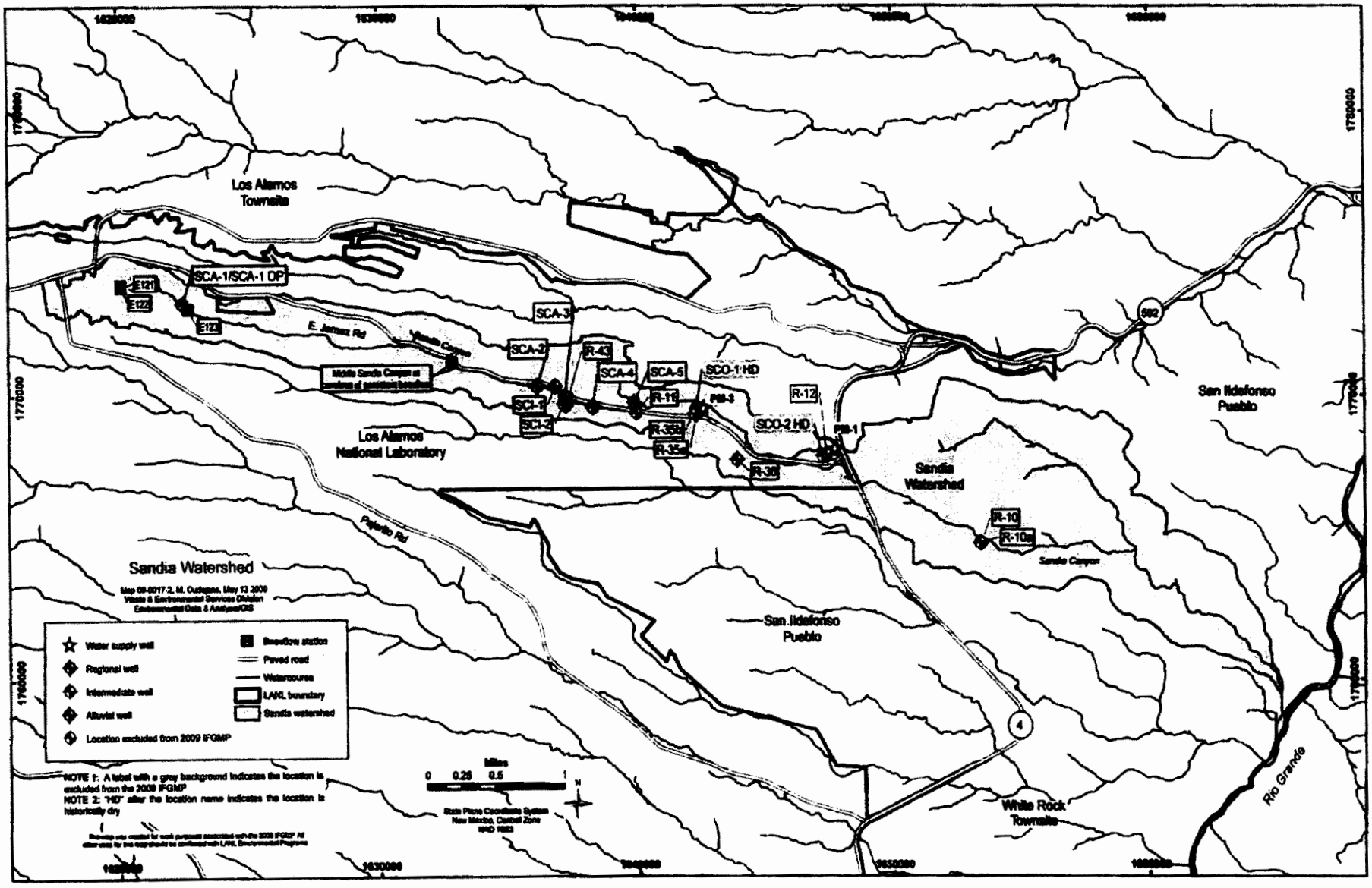
Los Alamos County Supply Well Monitoring. Quarterly monitoring of the Los Alamos County water supply wells is conducted under a cooperative agreement with the Los Alamos County Utilities Department. Water quality data are posted to the publicly accessible web site www.racernm.com and published annually in the Laboratory's Environmental Surveillance Report (See Appendix D).

Consent Order Monitoring. Monitoring of the alluvial, intermediate, and regional groundwater below Sandia Canyon is conducted in accordance with the 2009 Interim Facility-Wide Groundwater Monitoring Plan (Appendix D). Water quality data are submitted to the NMED in the Periodic Monitoring Reports (PMRs), posted to the publicly accessible web site www.racernm.com, and published annually in the Laboratory's Environmental Surveillance Report (See Appendix D). The following Sandia Canyon groundwater monitoring wells are included in the 2009 Interim Facility-Wide Groundwater Monitoring Plan:

- **Alluvial wells SCA-1, SCA-1-DP, SCA-2, SCA-3, SCA-4, and SCA-5;**
- **Perched-intermediate wells R-12, SCI-1 and SCI-2; and**
- **Regional wells R-10, R-10a, R-11, R-35a, R-35b, R-36, and R-43.**

Relatively present-day groundwater is represented by Sandia Canyon's alluvial wells and intermediate well SCI-1; in contrast, older waters representing pre-SWWS Plant discharges to Sandia Canyon occur at intermediate well SCI-2 and the regional aquifer wells.

The map below—excerpted from the 2009 Interim Facility-Wide Monitoring Plan—shows the referenced Sandia Canyon monitoring wells.



The table below—excerpted from the 2009 Interim Facility-Wide Groundwater Monitoring Plan—provides the specific analytical suites and frequencies for groundwater monitoring in Sandia Canyon.

	Metals[a]	Organics						Radionuclides			General Inorganics			
Sandia Canyon	TAL	VOC	SVOC	PCB	RAD	HEXP	Dioxins/Furans	RAD	Tritium	Tritium	Chemical Parameters	Radionuclides	Cations/Anions	Field Parameters
Alluvial	Q	Q	A	–	A	–	–	A	–	A	Q	A		Q
Intermediate	Q	Q	A	–	A	–	–	A	–	Q	Q	Q	A	Q
Regional	Q	Q	A	–	A	–	–	A	–	Q	Q	Q	A	Q

Notes: Sampling frequency: B=bimonthly (6 times/yr); Q = quarterly (4 times/yr); S = semiannual (2 times/yr); A = annual (1 time/yr); T=triennial
a Metals analysis includes the 23 TAL metals, plus boron, molybdenum, silica, strontium, tin, and uranium.
b Superscript CNQR denotes analysis of PCB congeners using the EPA Method 1668A.
c The analytical suite of HEXP includes the Consent Order list of the normal SW-846:8330 analytes plus pentaerythritol tetranitrate (PETN), triaminotrinitrobenzene (TATB), 3,5-dinitroaniline, tris(o-cresyl)phosphate (TOCP), 2,4-diamino-6-nitrotoluene, and 2,6-diamino-4-nitrotoluene. RDX-degradation products hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine (MNX); hexahydro-1,3-nitro-1,3,5-triazine (DNX); and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX) are also included in the HEXP analytical suite and are analyzed by SW-846:8330.
d Rad (radionuclide) suite includes gross alpha, gross beta, alpha spectroscopy, gamma spectroscopy, and strontium-90.
e Tritium samples may be analyzed by liquid scintillation if anticipated activities are greater than 300 pCi/L. Low-level tritium is analyzed using electrolytic enrichment or direct counting
f General inorganic analysis includes major anions (bromide, chloride, fluoride, sulfate), major cations (calcium, magnesium, sodium, potassium), nitrate plus nitrite (as N), total Kjeldahl nitrogen (TKN), ammonia, phosphate, total organic carbon (TOC), total dissolved solids (TDS), alkalinity, specific conductivity, and pH
h Field parameters include pH, turbidity, specific conductance, dissolved oxygen, and temperature at all locations. Oxidation-reduction potential (ORP) will be measured if a flowthrough cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

For existing facilities:

Indicate number of existing monitoring wells: **16**

Attach copies of monitoring well logs. **Well logs available on request.**

☐ Well logs attached. ☐ Well logs cannot be located..

☐ Well logs previously submitted. Submittal date(s):

Attach copy of monitoring well survey (typically not applicable if fewer than 3 monitoring wells).

☒ Survey attached. ☐ No survey has been conducted.

See location map on the preceding page. ☐ Survey previously submitted. Submittal date(s):

B-15. Other Monitoring. In addition to discharge volumes, discharge quality monitoring and ground water sampling, Discharge Permits typically require the following monitoring, depending on the type of facility:

- inspection and pumping of septic tanks, grease tanks, lift stations—**See Appendix C, Lift Stations Operational Inspection & Maintenance Procedure.**
- inspection of leachfields—**NA**
- inspection of lagoons—**See No. 1 below**.
- process testing for treatment plants—**See Appendix C, O&M Manual**.
- land application data sheets (LADS) –**NA**
- tracking of chemical fertilizer applications to land application areas—**NA**
- soil sampling (agricultural and selected other facilities land applying wastewater)—**NA**
- harvested plant material testing (agricultural facilities)—**NA**

Optional: In the space below (or as an attachment), you may propose revisions or additions to the other standard monitoring requirements for your type of facility. If you do, provide the rationale for your proposal.

1. **LANL conducts monthly inspections of the four leak detection sumps at the Sigma Mesa Evaporation Basins. Inspection findings are documented and reported to the NMED in the quarterly Discharge Permit reports in accordance with the requirements specified in the NMED's October 1, 2002, Discharge Permit Modification (DP-857) approval letter. See Appendix A.**

Contingency Plan *[Section 20.6.2.3107.A.10 NMAC]*

B-16. System Failure. Describe your contingency plan in the event there is a failure of your wastewater or discharge system (e.g., wastewater back-up, pump failure, pipe breaks, tank overflow, leachfield failure, saturated fields etc.)

The TA-46 SWWS Plant contingency plan includes, but is not limited to, the following:

- **LANL maintains procedures that document the appropriate response to system failures at the TA-46 SWWS Plant:**

  1. **The SWWS Plant's *Operation & Maintenance Manual* (See Appendix C) provides specific instructions for Emergency Operating Plans & Procedures (Chap 8), Safety (Chap 9), and Emergency Power Generator (Chap 10.5).**

  2. **The administrative procedure, *Unusual Influent—Wastewater Operations*, provides specific instructions for responding to off-spec influent that may pose a risk to the plant's operations.**

- **LANL maintains a gravity discharge at NPDES Permitted Outfall 13S to Cañada del Buey in the event that the force main fails and/or the TA-3 reuse system is unable to receive treated effluent.**

- **LANL maintains an emergency on-call network of certified operators in the event of a system failure during non-working hours.**

- **LANL maintains an on-site emergency power generator and redundancy on all critical pumps, blowers, and MIOX disinfectant generators.**

- **LANL maintains a jet-rodder and water truck in the event that the collection system's sewer lines, manholes, or lift stations require emergency servicing.**

B-17. Contingency Leachfield Location. *This item applies only if your disposal system includes a leachfield.* Identify a location on your site map (Item B-3) for a contingency leachfield in the event that your leachfield must be replaced. If no land is available for a contingency leachfield at an existing facility, describe how you will address a failed leachfield. New facilities must provide for a contingency leachfield location.

NA

B-18. Other Contingencies. Discharge Permits typically contain standard contingencies to address:

- exceeding wastewater quality limits—**See Nos. 1 & 2 Below.**
- violation of ground water or surface water standards—**See Nos. 1 & 2 Below**
- spills or illegal releases of wastewater—**See Nos. 1 & 2 Below**
- migration of soil nitrogen—**NA**
- loading nitrogen above limit—**NA**

Propose additional contingency plans, if appropriate:

1. **The January 7, 1998, Discharge Plan (DP-857) Renewal letter issued by the NMED contains four contingencies. See Appendix A.**

2. **The October 1, 2002, Discharge Permit Modification (DP-857) approval letter issued by the NMED contains two contingencies. See Appendix A.**

Closure Plan *[Section 20.6.2.3107(A)11 NMAC*
]

B-18. Facility Closure and Post-Closure Monitoring. Discharge Permits contain standard requirements to address the closure of part or all of your discharge system, as follows:

- cap or plug lines to prevent the flow of wastewater to treatment or disposal system
- empty and remove or backfill tanks
- empty lagoons, perforate or remove liners, re-grade to surface topography
- appropriately dispose of solids
- regrade and cover stockpiles at mine facilities
- continue ground water monitoring for at least two years, longer as appropriate
- enact contingency plans if ground water standards are violated
- financial assurance may be required.

Propose additional closure plans in the space below or as an attachment, if appropriate:

No additional closure plans are proposed.

Please Note: You must also complete Part C of the application.

GROUND WATER DISCHARGE PERMIT APPLICATION
PART C: SITE INFORMATION
All Facilities

C-1. Area Map. Attach a current area map showing roads and clearly mark the location of your facility.

C-2. Directions to Site. Provide driving directions to the site from the nearest town or, if located in a town, from an easily identifiable location.

From Santa Fe, NM, take US-285 north to Pojoaque, NM. Take NM-502 west towards Los Alamos, NM.

C-3. Topographic Map. Attach a copy of the appropriate US Geological Survey topographic map. You may provide just the relevant portion. USGS maps are available at many outdoor equipment stores or bookstores, from the USGS at www.usgs.gov or 1-888-ASKUSGS, and from commercial websites.

On the map clearly indicate the location of your facility. Also identify the approximate locations of all wells within 1,000 feet of your discharge locations. The Office of the State Engineer has a searchable database of supply wells on its website at www.ose.state.nm.us.

See Appendix E.

☐ USGS map attached with facility location and neighboring wells marked.

C-4. Flood Potential. Attach a copy of the latest Federal Emergency Management Agency (FEMA) flood map with your facility's location clearly marked, to the best of your ability. Information about how to obtain this map, formally known as a Flood Insurance Rate Map (FIRM) is available at www.fema.gov, insurance agencies or county government offices. A site specific analysis may be substituted.

Flood plain mapping by LANL shows that the TA-46 SWWS Plant, the SERF, and the Sigma Mesa evaporation basins are located outside of the 100-yr floodplain.

☐ FEMA map or site-specific analysis attached.

☒ Previously submitted and still up-to-date. Submittal date(s): **April 1992. Discharge Plan Application, Appendix 2, Plant Site Drainage Analysis**

C-5. Soils. Attach either:

a) A copy of the appropriate Natural Resource Conservation Service (NRCS) soil survey map, with your site clearly identified to the best of your ability. Include the descriptive information for soils associated with the discharge locations. To obtain the map, contact your local NRCS office – there is one in every county.

b) A site-specific assessment showing the soils classifications. This is preferred over the more generalized NRCS surveys.

☐ NRCS soil survey or site-specific assessment attached.

☒ Previously submitted. Submittal date(s): **April 1992. Discharge Plan Application, Appendix 5, Plant Site Geotechnical Report.**

C-6. Geology. Provide information on the geology beneath the site by attaching relevant portions of geologic reports, well logs for on-site or nearby wells, or site specific assessments. A variety of geology publications and resources are available from the New Mexico Bureau of Geology and Mineral Resources at http://geoinfo.nmt.edu or 505-835-5420 (Socorro). Well logs are available from the New Mexico State Engineer's Office at http://www.ose.state.nm.us/.

See Appendix D (CD) containing the following LANL geologic reports:

1. **Hydrogeologic Studies of the Pajarito Plateau, 1998-2004 (LA-14263-MS)**
2. **2009 Hydrogeologic Site Atlas (LA-UR-09-3763)**

☒Geologic report attached. ☐ Well log(s) attached.

☐ Geologic information previously submitted. Submittal date(s): _____

C-7. Ground Water Hydrology. Ground water hydrology refers to the occurrence, distribution, movement and chemistry of ground water. The ground water hydrology at your site will determine in large part whether your discharge will adversely affect ground water quality. You may need to present detailed information in order to "demonstrate that the Discharge Permit will not result in concentrations in excess of the standards of Section 20.6.2.3103 NMAC or the presence of any toxic pollutant." (20.2.3106.C.7 NMAC)

At a minimum, provide information below on the direction of ground water flow. Ground water may not flow in the same direction as water on the surface of the ground. A monitoring well survey is one of the best methods to determine the direction of ground water flow at a particular site. Such surveys are routinely required for many Discharge Permit locations.

If a survey is not available, check with well drillers, the city water department, staff at the Office of the State Engineer, environmental consultants or other knowledgeable persons in your area. In addition, relevant reports have been published for some areas. See the OSE website at www.ose.state.nm.us or the NMBGMR website at http://geoinfo.nmt.edu.

Direction of ground water flow: **Southeast. See Appendix E-Maps**

If ground water flow shifts seasonally, describe here:

Reference:

☐ On-site well survey attached. ☐ Previously submitted. Submittal date(s):

☐ Nearby well survey attached. ☐ Previously submitted. Submittal date(s):

☒Other. Specify: **See Appendix D (CD) containing the following LANL reports:**
1. **Hydrogeologic Studies of the Pajarito Plateau, 1998-2004 (LA-14263-MS)**
2. **2009 Hydrogeologic Site Atlas (LA-UR-09-3763)**

☐ Relevant portion attached. ☐ Previously submitted. Submittal date(s):
Attach any additional information available about ground water hydrology at the site.

C-8. Other Permitted Discharge Locations. If applicable, list other locations of wastewater or stormwater discharges on your site that are not described in this application and indicate what permits apply to them. Examples include discharges from small septic systems (covered by Liquid Waste Permits, discharges to surface waters under a NPDES permit, a discharge covered by a separate Discharge Permit, etc. Be sure these other discharge locations are identified on the site map required in Item B-3.

Discharge Type	Permit Identification
SWWS Plant	NPDES Outfall 13S; Discharge Permit DP-857
RLWTF	NPDES Outfall 051; Discharge Permit Application DP-1132
HEWTF	NPDES Outfall 05A055
Cooling Towers (10)	NPDES Outfalls 03A021, 03A022, 03A027, 03A048, 03A113, 03A130, 03A158, 03A160, 03A181, 03A185
Power Plant	NPDES Outfall 001
Steam Plant	NPDES Outfall 02A129
Septic Systems (15)	Discharge Permit Application DP-1589 (Application resubmitted on June 25, 2010)
Stormwater from SWMUs	NPDES Individual Stormwater Permit NM0030759.
Stormwater from construction sites	NPDES Stormwater Construction General Permit Program

C-9. Other Information. Describe below or attach any additional information to demonstrate that your proposed discharge plan will be protective of ground water quality, public health and property. **The SWWS Plant's operational history since 1992 has demonstrated a consistent record of quality and excellence, including numerous awards and no NPDES permit exceedances in more than 10 years.**

APPENDIX B

PROCESS DIAGRAMS/INFLUENT SOURCES/REUSE SYSTEM

TABLE OF CONTENTS

1) TA-46 SWWS PLANT PROCESS FLOW DIAGRAM

2) TABLE 1.0, CURRENT AND POSSIBLE FUTURE SOURCES OF INFLUENT TO THE SWWS PLANT

3) TABLE 2.0, CURRENT AND POSSIBLE FUTURE SOURCES OF INFLUENT TO THE SERF

4) TABLE 3.0, CURRENT AND POSSIBLE FUTURE SOURCES OF INFLUENT TO THE SIGMA MESA EVAPORATION BASINS

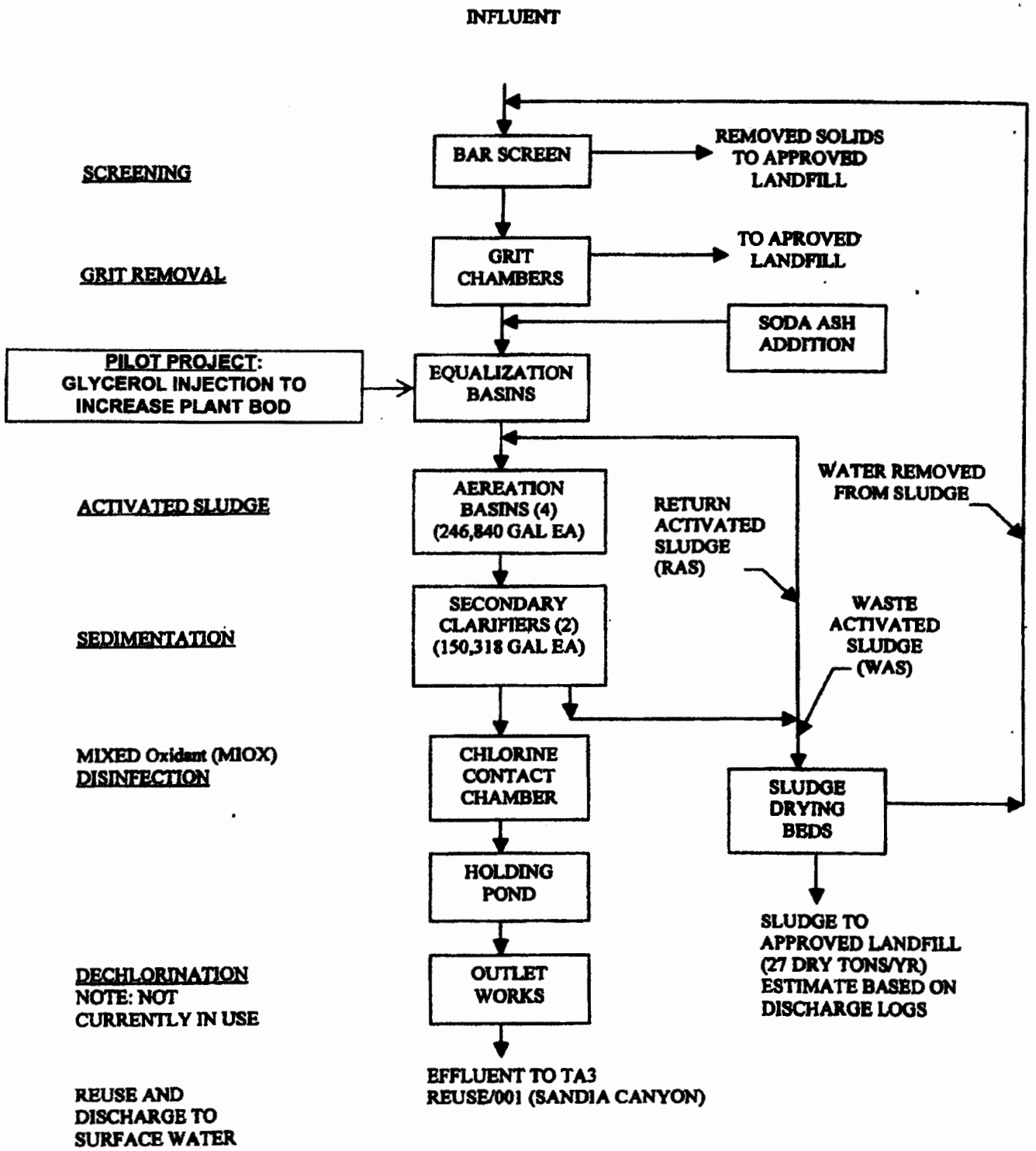
5) TABLE 4.0, CURRENT AND POSSIBLE FUTURE FACILITIES RECEIVING TREATED WATER FROM THE SERF

6) FIGURE 1.0, LANL SANITARY EFFLUENT REUSE SYSTEM_CURRENT OPERATING PLAN

7) FIGURE 2.0, LANL SANITARY EFFLUENT REUSE SYSTEM_PARTIAL REUSE OPTION

8) FIGURE 3.0, LANL SANITARY EFFLUENT REUSE SYSTEM_FULL REUSE OPTION

SANITARY WASTEWATER SYSTEMS (SWWS) PLANT
TA-46 BUILDING 333 (ADMIN. /CONTROL ROOM/LAB)
OUTFALL #13S



Appendix B_Sources, Characteristics, and Volumes of Wastewater Influent to the SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and Reuse Sites

Table 1.0. Current and Potential Future Sources and Characteristics of Influent to the TA-46 Sanitary Wastewater Systems (SWWS) Plant.

#	Influent Source	Influent Type	Status	Characteristics	Conveyance	Average Daily Flow (GPD)
1	LANL buildings	Sanitary	Current	Domestic-type wastewater from fixtures such as restrooms, showers, kitchens, janitor sinks, floor drains, water fountains, and cafeterias.	Collection	256,400
2	LANL buildings	Industrial	Current	Non-toxic wastewater from various industrial and research-type activities such as backflow preventers, pump seals, mechanical room leaks, mechanical repair shops, and photographic darkrooms.	Collection	Included in #1
3	Royal Crest TP	Sanitary	Current	Domestic-type wastewater from typical residential dwellings such as toilets, lavatories, showers, and kitchen/laundry appliances.	Collection	Included in #1
4	Holding tanks	Sanitary	Current	Domestic-type wastewater from fixtures such as restrooms, showers, kitchens, janitor sinks, floor drains, and water fountains.	Truck	2,300
5	Portable toilets	Sanitary	Current	Non-toxic wastewater from portable toilets (porta-potties)	Truck	230
6	Cooling Systems	Industrial	Current	Non-toxic wastewater from cooling towers and airwashers	Collection	1,000
7	Fire protection systems	Industrial	Current	Non-toxic wastewaster from the testing/flushing of fire protection systems	Collection	deminimus
8	Precipitation (seasonal)	Stormwater	Current	Ground and surface water infiltrating into the collection system	Collection	unknown
9	Consent Order Activities	Groundwater	Current**	Groundwater produced during well drilling, development, rehabilitation, or sampling that does not meet the criteria for land application under the NMED-approved Decision Tree, but meets the SWWS Plant WAC.	Truck	1,000
10	Power Plant	Industrial	Future	Non-toxic wastewater from the TA-3 Power Plant's boilers	Collection	3,500
11	Power Plant	Industrial	Future	Non-toxic wastewater from the TA-3 Power Plant's RO treatment unit (summer months only)	Collection	12,500
12	Sigma Facility Cooling Tower	Industrial	Future	Non-toxic wastewater from the Sigma Facility cooling tower blow-down	Collection	3,880
13	DARHT Cooling Tower	Industrial	Future	Non-toxic wastewater from the DARHT Facility cooling tower blow-down	Collection	4,112
14	SCC Cooling Tower	Industrial	Future	Non-toxic wastewater from the TA-3 SCC cooling tower blow-down	Collection	81,000
15	LDCC Cooling Tower	Industrial	Future	Non-toxic wastewater from the TA-3 LDCC cooling tower blow-down	Collection	38,880
16	TA-55 Cooling Tower	Industrial	Future	Non-toxic wastewater from the TA-55 cooling tower blow-down	Collection	2,547

**Currently conducted on a case-by-case basis under Temporary Permission to Discharge from NMED.

Appendix B_Sources, Characteristics, and Volumes of Wastewater Influent to the SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and Reuse Sites

Table 2.0. Current and Possible Future Sources of Influent to the TA-03 Sanitary Effluent Reclamation Facility (SERF).

#	Influent Source	Influent Type	Status	Characteristics	Conveyance	Average Daily Flow (GPD)
1a	TA-46 SWWS Plant	Treated Effluent	Current**	Treated effluent from the TA-46 SWWS Plant to the current SERF.	Pipe	140,000
1b	TA-46 SWWS Plant	Treated Effluent	Future	Treated effluent from the TA-46 SWWS Plant to an expanded SERF.	Pipe	378,000
2	TA-55 Cooling Tower	Industrial	Future	Non-toxic wastewater from the TA-55 cooling tower blow-down	Pipe	2,547
3	LDCC Cooling Tower	Industrial	Future	Non-toxic wastewater from the LDCC cooling tower blow-down	Pipe	38,880
4	SCC Cooling Tower	Industrial	Future	Non-toxic wastewater from the SCC cooling tower blow-down	Pipe	81,000
5	Power Plant	Industrial	Future	Non-toxic wastewater from the TA-3 Power Plant's boilers	Pipe	3,500
6	Power Plant	Industrial	Future	Non-toxic wastewater from the TA-3 Power Plant's RO treatment unit (summer months only)	Pipe	12,500

**Limited SERF operations in 2010 and 2011.

Table 3.0. Current and Possible Future Sources of Influent to the Sigma Mesa Evaporation Basins.

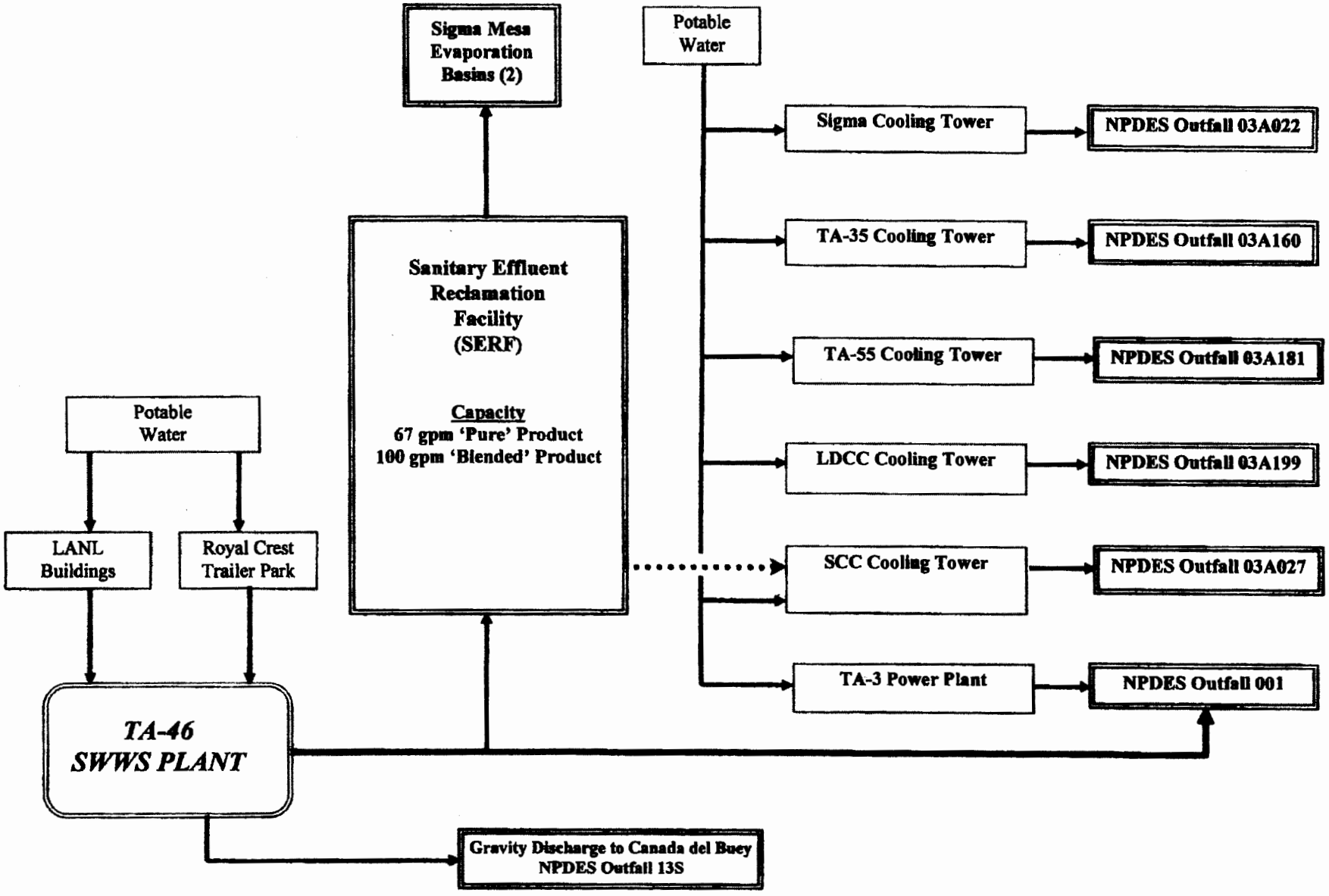
#	Influent Source	Influent Type	Status	Characteristics	Conveyance	Average Daily Flow (GPD)
1	SERF	Industrial	Current	(1) Reject wastewater from SERF treatment units (2) Pure product water or blended product water from SERF treatment units	Pipe	8,867
2	Consent Order Activities	Groundwater	Future	Groundwater produced during well drilling, development, rehabilitation, or sampling that does not meet the criteria for land application under the NMED-approved Decision Tree, but meets the Waste Acceptance Criteria (WAC) for the SERF Evaporation Basins.	Truck	variable depending upon capacity

Table 4.0. Current and Possible Future Facilities Receiving Treated Water From the SERF.

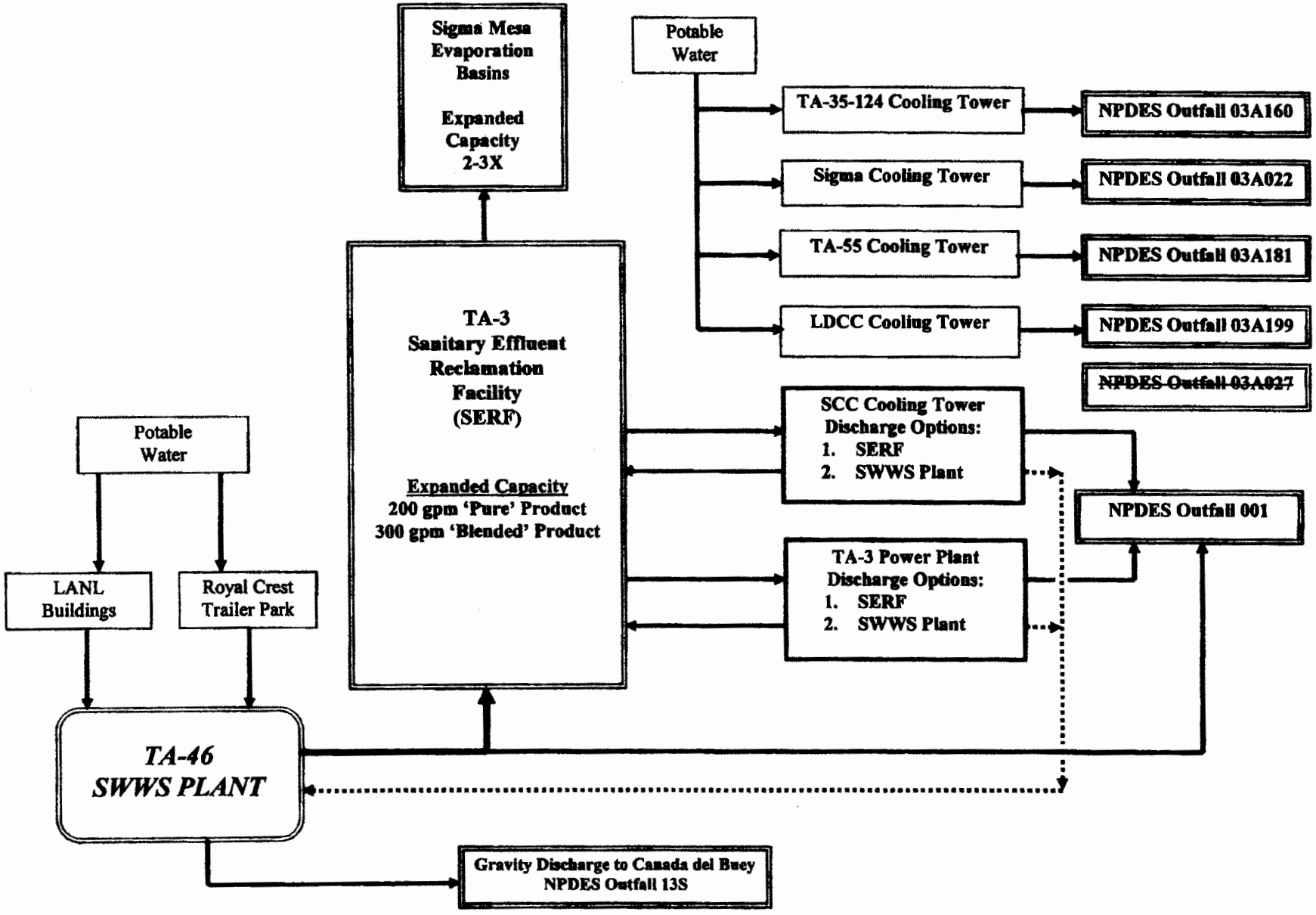
#	Recipient	Use	Status	Characteristics	Conveyance	Average Daily Flow (GPD)
1	SCC	Industrial	Current**	SERF product and SWWS Plant effluent blended as make-up water for the SCC Cooling Towers.	Pipe	324,000
2	LDCC	Industrial	Future	SERF product and SWWS Plant effluent blended as make-up water for the LDCC Cooling Towers.	Pipe	156,000
3	Power Plant	Industrial	Future	SERF product water used as make-up water for the Power Plant boilers.	Pipe	50,000

**The use of SERF/SWWS blended water by the SCC cooling towers is not planned for 2010 and 2011.

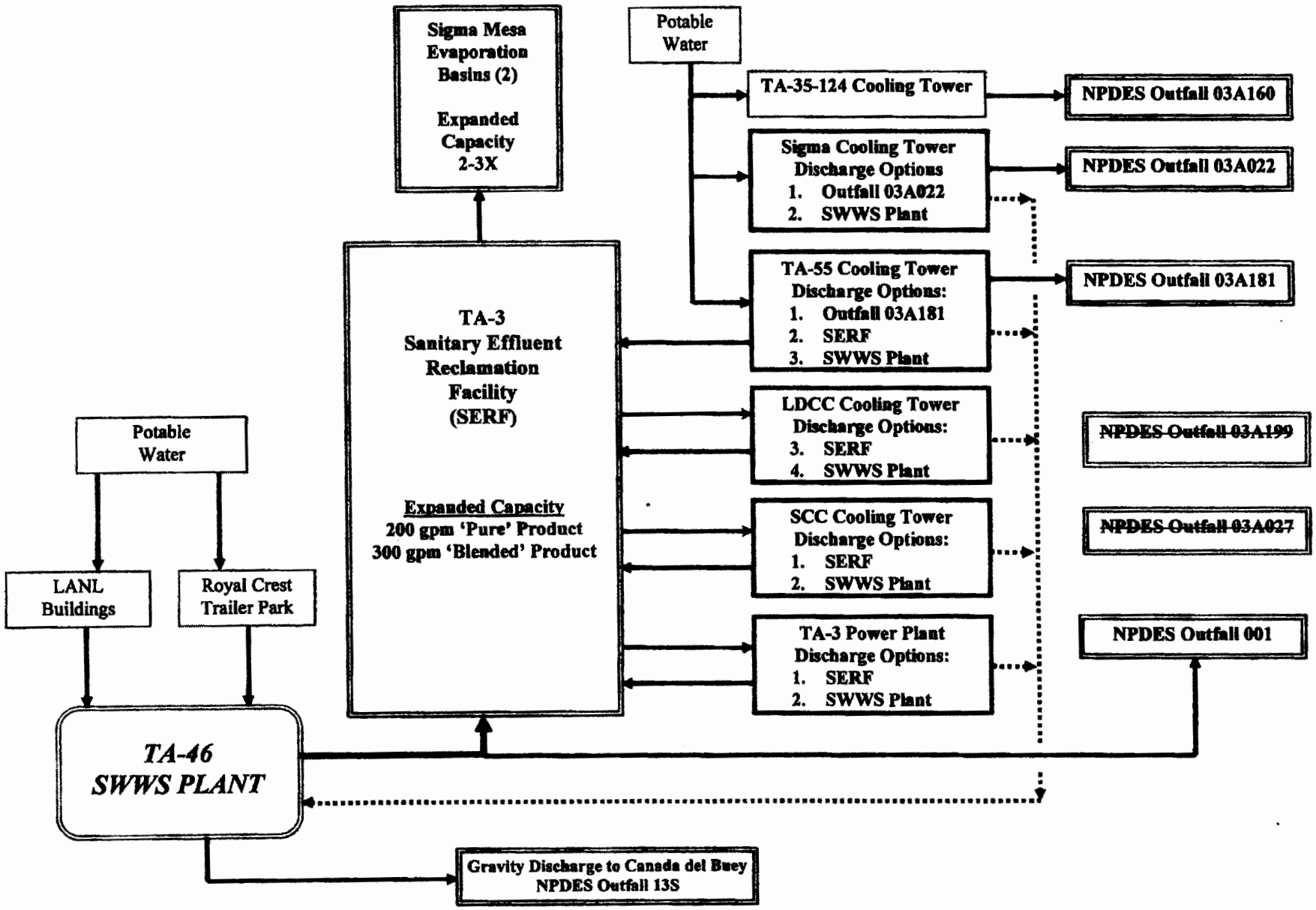
APPENDIX B_FIGURE 1.0_LANL SANITARY EFFLUENT REUSE SYSTEM_CURRENT OPERATING PLAN



APPENDIX B_FIGURE 2.0_ LANL SANITARY EFFLUENT REUSE SYSTEM SCHEMATIC_PARTIAL REUSE OPTION_REV 1



APPENDIX B_FIGURE 3.0_LANL SANITARY EFFLUENT REUSE SYSTEM SCHEMATIC_FULL REUSE OPTION



ENCLOSURE 2

Amendments to the June 30, 2010, Discharge Permit DP-857
Application for Modification and Renewal

ENV-RCRA-12-0272

LAUR-12-26859

Date: DEC 20 2012

NEW MEXICO ENVIRONMENT DEPARTMENT
GROUND WATER QUALITY BUREAU

DISCHARGE PERMIT APPLICATION

DP-857 Application Amendments[1]

Type of Application. Check appropriate box.

☐ Application for new Discharge Permit -- new facility

☐ Application for new Discharge Permit -- existing (unpermitted) facility

☐ Application for Discharge Permit Renewal

☐ Application for Discharge Permit Modification
"Modification" is defined as a change to the permit requirements that result from a change in the location of the discharge, a significant increase in the quantity of the discharge, or a significant change in the quality of the discharge.

☒ Application for Discharge Permit Renewal and Modification. [1]**Application for Renewal and Modification of DP-857, submitted on July 2, 2010 (ENV-RCRA-10-127).**

For an existing Discharge Permit, please indicate: DP Number **857** Expiration date **01/07/2003**

Checklist of Application Components.

☒Part A: Administrative Completeness.	*Instructions for completing the application are included on the form itself and on Supplemental Instructions for Parts A and B. You may fill out the application manually, or a Microsoft Word version may be downloaded from www.nmenv.state.nm.us (Ground Water Quality) and filled out electronically.*
☒ Part B: Operational, Monitoring, Contingency and Closure Plans, with required attachments. *Choose appropriate option*: ☐ Septic Tank System ☒ General – Various Facility Types	
☒ Part C: Site Information, with required attachments.	
☐ $100 Filing Fee, payable to the New Mexico Environment Department. *Required from all applicants.* An additional fee will be assessed prior to permit issuance. Permit fees are listed in Section 20.6.2.3114 NMAC.	

Certification. Signature must be that of the person named in Item A-3 of Part A of the application.
I certify under penalty of law that I am knowledgeable about the information contained in this application. The information is, to the best of my knowledge and belief, true, accurate and complete.

Signature: M Kathryn Beier for MTBrandt Date: 12/18/12

Printed Name: **Michael T. Brandt, Associate Director** Title: **ESH, LANS**

Signature: Date: 12/19/12

Printed Name: F2 **Kevin W. Smith, Manager** Title: **Los Alamos Site Office, NNSA**

Send three complete copies of this application and the filing fee to:
Program Manager
Ground Water Pollution Prevention Section
New Mexico Environment Department
PO Box 5469
Santa Fe, NM 87502

GROUND WATER DISCHARGE PERMIT APPLICATION
PART A: ADMINISTRATIVE COMPLETENESS
All Facilities

A-1. Facility Information. See Supplemental Instructions to determine what constitutes the "facility." The physical location of the facility must be provided. If the facility does not have an address, the location can be described by road intersections, mile posts, or landmarks, as appropriate.

Facility Name	**Los Alamos National Laboratory**
Former Names (if any)	**NA**
Physical address/location *(mandatory)*	**Los Alamos, New Mexico**
	County **Los Alamos**
Mailing address	**P.O. Box 1663, MS K491**
	Los Alamos, NM 87544
Contact person	**Michael T. Brandt**
Title	**Associate Director, Environment, Safety & Health, LANS, LLC**
Telephone number(s)	**(505) 667-4218**
Fax number	**(505) 665-3811** E-mail address **mtbrandt@lanl.gov**

A-2. Type of Discharge and Type of Facility. See Supplemental Instructions.

Type of discharge: ☒ Domestic ☐ Agricultural ☒ Industrial ☐ Mining

Type of facility: **The Technical Area (TA)-46 Sanitary Wastewater Systems (SWWS) Plant receives sanitary (~75%) and industrial (~25%) influent from Los Alamos National Laboratory facilities and Los Alamos County customers.**

A-3. Applicant Information. The applicant is the person or entity (e.g., corporation, partnership, organization, municipality, etc.) legally responsible for the discharge and for complying with the terms of the Discharge Permit. If the applicant is an entity, then the name and title of a contact person must be provided. This application must be signed by the applicant or contact person named here.

Applicant Name	**National Nuclear Security Administration (NNSA)[1]**
	Los Alamos National Security, LLC (LANS)[2]
Mailing address	**[1]3747 West Jemez Road, Los Alamos, NM 87544**
	[2]P.O. Box 1663, MS K491, Los Alamos, NM 87544
Contact person	**Kevin W. Smith[1], Manager, Los Alamos Site Office, NNSA**
	Michael T. Brandt[2], Associate Director, ESH, LANS
Telephone number(s)	**[1](505) 667-5105 [2](505) 667-4218**
Fax number	**[1]N/A** E-mail address: **kevin.smith@nnsa.doe.gov**
	[2]N/A **mtbrandt@lanl.gov**

A-4. Consultant Information (if applicable). If the consultant is a company or organization, then the name and title of a contact person must be provided.

Consultant/Firm Name **NA**

A-5. Permit Contact Information (if applicable). If someone other the applicant listed in Item A-3 or a consultant listed in Item A-4 is a primary contact for this application and/or facility, list here.

Permit Contact Name **Robert Beers**

Title **Environmental Professional, Water Quality & RCRA Group, LANS**

Mailing address **P.O. Box 1663, MS K490, Los Alamos, NM 87544**

Telephone number(s) **(505) 667-7969**

Fax number **N/A** E-mail address **bbeers@lanl.gov**

A-6. Ownership.

The applicant owns (check as appropriate): ☒ the facility** ☐ some discharge sites ☐ all discharge sites

**** National Nuclear Security Administration (NNSA) Facility**

A-7. Discharge Quantity.

Your Discharge Permit will specify a maximum discharge volume, which is typically expressed as the maximum number of gallons per day that may be treated and/or disposed of. Please indicate below the maximum discharge volume for your facility. You must show how it was determined in Part B of your application. For further explanation, see Supplemental Instructions for Part B.

Maximum discharge volume: **850,000**[1] gallons per day (or other units:)

[1]**Sources are up to 450,000 gallons per day (gpd) of sanitary wastewater and up to 400,000 gpd of industrial wastewater.**

A-8. Processing, Treatment, Storage and Disposal System. Briefly describe how wastewater, sludge, etc. is processed, treated, stored, and/or disposed of at your facility. See Supplemental Instructions for examples of system components.

The design flow of the TA-46 Sanitary Wastewater Systems (SWWS) Plant is 600,000 gallons per day. The maximum capacity of the TA-3 Sanitary Effluent Reclamation Facility (SERF) is 600,000 gallons per day. Typical influent flows to the TA-46 SWWS Plant are nominally 75% sanitary and 25% industrial wastewater during normal business hours. Treatment is by extended aeration, clarification, and chlorination (See Process Diagram, Appendix B). Sludge is dried on-site in synthetically-lined drying beds and disposed of in accordance with applicable regulations. Treated and disinfected effluent is stored in a synthetically-lined impoundment for either (1) treatment at the SERF for subsequent reuse, (2) discharge at NPDES Outfall 001 in Sandia Canyon, (3) used on-site for landscape irrigation at the SWWS Plant, or (4), if necessary, discharged to Cañada del Buey at NPDES Outfall 13S. Since the TA-46 SWWS Plant began operating in 1992, no effluent has been discharged to Cañada del Buey.

Under current operations, all treated effluent—with the exception of that used for landscape irrigation between the months of March and October—is pumped via force main to TA-3 for discharge at NPDES Outfall 001 or treatment by the SERF. The SERF receives treated effluent from the TA-46 SWWS Plant for treatment by microfiltration and reverse osmosis (RO). Concentrate or reject wastewater from the RO unit is discharged to the synthetically-lined evaporation basins on Sigma Mesa or to the TA-46 SWWS Plant. Product water from the SERF RO unit is blended with treated TA-46 SWWS Plant effluent for subsequent reuse. See Appendix B for a schematic of the effluent reuse system.

LANL completed expansion of the SERF reuse system in CY2012.

A-9. Discharge Locations. List the locations of your facility and of all components of your processing, treatment, storage and/or disposal system. Examples of components include septic tanks, lagoons, leachfields, irrigation sites, mine stockpiles, etc. Additional examples are listed in the Supplemental Instructions. Latitude and longitude are optional unless township, range and section are not available.

TREATMENT SYSTEMS, NPDES OUTFALLS, AND WASTEWATER SOURCES					
TA	**BLDG.**	**DESCRIPTION**	**Township**	**Range**	**Section**
46	336	SWWS Plant	T19N	R06E	26
3	1398	SERF	T19N	R06E	16
60	221/222	SERF Evaporation Basins	T19N	R06E	22
3	336	Reuse Tank	T19N	R06E	16
46	NA	NPDES Outfall 13S	T19N	R06E	26
3	NA	NPDES Outfall 001	T19N	R06E	16
3	NA	NPDES Outfall 03A027	T19N	R06E	16
3	2327	SCC Cooling Towers	T19N	R06E	17
3	22	Power Plant Boilers	T19N	R06E	17
ACTIVE HOLDING TANKS AS OF 11/26/2012					
11	20	SW of Bldg. TA-11-1	T19N	R06E	32
11	43	S. of Bldg. TA-11-3	T19N	R06E	32
16	819	NW of Bldg. TA-16-332	T19N	R06E	30
16	1542	NE of Bldg. TA-16-1507	T19N	R06E	29
21	9000-9003	Construction Trailers	T19N	R06E	14
36	249	White Rock check Station	T18N	R07E	5
49	118	115' NE OF TA-49-115	T18N	R06E	4
54	351/352	NE of Bldg. TA-54-367	T19N	R07E	31
54	406/407	NE of TA-54-11	T19N	R07E	31
64	66	N. of Bldg. 64-64	T19N	R06E	21
66	3	SE of TA-66-1	T19N	R06E	22
69	46	NW of Bldg. TA-69-33	T19N	R06E	19
69	9	N of TA-69-1	T19N	R06E	19
72	18	E. of Bldg. TA-72-36	T19N	R06E	24
72	Toilet Trailer	Truck Check Station	T19N	R07E	20

Additional potential holding tank locations includes the following: Sections 1,2,3,11,12,13,24, T18N, R06E; Sections 6,7,8,18,19,T18N, R07E; Sections 15,16,17,18,20,23,26,28,31,33,34,35,36,T19N, R06E; Sections 19,20, T19N, R07E.

A-10. Discharge Quality.

Indicate the expected quality of the discharge -- wastewater, leachate, sludge, etc. -- generated, stored, treated, processed and/or discharged at your facility. List the contaminants of concern and the expected concentrations. *Not all facilities need to characterize influent quality.* See Supplemental Instructions for typical contaminants and additional guidance.

See Appendix F, Effluent Quality Data (CD). Data Source: www.intellusnmdata.com
The three tables below present contaminants of concern and their expected concentrations.

Effluent Quality[1], NPDES Outfall 001

Contaminant	Average Result (mg/L)	Maximum Result (mg/L)	Minimum Result (mg/L)
TDS	436	598	231
Chloride	82	148	10
Fluoride	0.35	0.35	0.35
NO3+NO2-N	1.0	3.1	0.4
TKN	0.48	1.4	0.03

[1]Based on monitoring results from 2008-2012. Data Source: Appendix F.

Effluent Quality[1], NPDES Outfall 03A027

Contaminant	Average Result (mg/L)	Maximum Result (mg/L)	Minimum Result (mg/L)
TDS	483	662	390
Chloride	27	149	9
Fluoride	0.59	0.59	0.59
NO3+NO2-N	1.3	4.5	0.4
TKN	1.1	2.8	0.03

[1]Based on monitoring results from 2008-2012. Data Source: Appendix F.

Effluent Quality[1], Trihalomethanes

Contaminant	NPDES Outfall 001 Result (ug/L)	NPDES Outfall 03A027 Result (ug/L)
Chlorodibromomethane	40	0.30
Chloroform	15.7	0.25
Bromoform	15.5	0.25
Bromodichloromethane	28.9	0.25

[1]Based monitoring results from 2008-2012. Data Source: Appendix F

The contaminants listed above—chlorodibromomethane, chloroform, bromoform, and bromodichloromethane—are consistently detected in the TA-46 SWWS Plant's effluent and have reported to the NMED in annual Discharge Permit DP-857 monitoring reports (ENV-DO-12-0003, January 24, 2012). These compounds, called trihalomethanes, are common by-products from the disinfection of wastewater effluent with chlorine compounds.

A-11. Ground Water Conditions.

All applicants must provide the depth to and pre-discharge TDS concentration of the ground water that could be affected by the discharge. Refer to Supplemental Instructions for details on how to obtain these values.

Indicate the depth to the most shallow ground water beneath the discharge site. If there are multiple discharge sites, indicate the range of depths.	Indicate pre-discharge total dissolved solids (TDS) concentration of most shallow ground water beneath the discharge site. Attach copies of analyses.
Depth to water (feet): **Alluvial: 2-65 ft below ground surface** **Intermediate: 330-400 ft bgs** **Regional: 828-1312 ft bgs**	TDS (mg/L): **Alluvial: 115-3800 mg/L** **Intermediate: 282 mg/L** **Regional: 150 mg/L**
Reference: ☒ Measurement, nearby monitoring well ☐ Measurement, nearby supply well ☐ Well log from nearby well (attach copy) ☐ Office of the State Engineer http://www.ose.state.nm.us/ ☐ Report or study (give citation here and attach relevant portion): ☐ Other (describe):	Reference: ☒ Analysis from upgradient monitoring well ☐ Analysis from on-site supply well ☐ Analysis from shallow nearby supply well ☐ Concentration provided in previous Discharge Permit application ☒ Report or study (give citation here and attach relevant portion): **See Appendix D (CD) (previously submitted with the June 30, 2010, application), 2008 LANL Environmental Surveillance Report** ☐ Other (describe):

A-12. Public Notice. See Supplemental Instructions.

a) The public notice packet including instructions and materials should be sent to:
☐ Applicant ☐ Consultant ☒ Other: **Permit Contact (A-5)**

b) Copies of the public notice packet (excluding sign) should be sent to:
☐ Applicant ☐ Consultant ☒Other: **Permit Contact (A-5)**

c) The applicant is required to provide public notice of this application by placing a display ad in a newspaper of general circulation near the location of the proposed discharge. Indicate newspaper you intend to place the ad in:
Newspaper: **Los Alamos Monitor**

d) *For new or modification applications only:* The applicant must post a sign for 30 days in a conspicuous location at or near the facility, as approved by NMED. One sign must be posted for each 640 contiguous acres or less of the discharge site. An additional notice must be posted at an off-site location conspicuous to the public. Describe the locations below where you intend to post the notices. You may also attach sketches or photographs.
At or near facility: **40 signs will be posted at or near the locations listed in the table below.**
Off-site location: **A flyer size notice will be posted at the LANL Public Reading Room.**

#	Township	Range	Section	Location of 2 X 3 ft Public Notice Sign
1	18N	6E	1	Sign will be posted at the entrance to the remote research site's parking lot
2	18N	6E	2	Sign will be posted at the entrance to the remote research site's parking lot
3	18N	6E	3	Sign will be posted on a dirt access road off NM4
4	18N	6E	4	Sign will be posted on a dirt access road off NM4
5	18N	6E	11	Sign will be posted on the fence along NM4
6	18N	6E	12	Sign will be posted on the fence along NM4
7	18N	6E	13	Sign will be posted at the entrance to the TA-39 parking lot
8	18N	6E	24	Sign will be posted along the main access road at TA-33
9	18N	7E	5	Sign will be posted at the entrance to the access control station on Pajarito Rd
10	18N	7E	6	Sign will be posted on the fence along Pajarito Rd.
11	18N	7E	7	Sign will be posted on the fence along NM4
12	18N	7E	8	Sign will be posted on the fence along NM4
13	18N	7E	18	Sign will be posted on the fence along NM4
14	18N	7E	19	Sign will be posted at the National Radioastronomy Observatory's parking lot
15	19N	6E	14	Sign will be posted on the fence along NM502
16	19N	6E	15	Sign will be posted along E. Jemez Rd near the Royal Crest Trailer Park
17	19N	6E	16	Sign will be posted adjacent to the Park & Ride bus stop
18	19N	6E	17	Sign will be posted on fence along Diamond Dr
19	19N	6E	18	Sign will be posted at the entrance to the access control station on W. Jemez Rd
20	19N	6E	19	Sign will be posted at the Guard House
21	19N	6E	20	Sign will be posted at the major intersection of Pajarito Rd and Diamond Dr
22	19N	6E	21	Sign will be posted in the parking lot of this building along Pajarito Rd
23	19N	6E	22	Sign will be posted in the parking lot of this building along Pajarito Rd
24	19N	6E	23	Sign will be posted along the access road to TA-53
25	19N	6E	24	Sign will be posted at the entrance to the Live Fire Range
26	19N	6E	26	Sign will be posted on the access road to the TA-46 SWWS Plant
27	19N	6E	27	Sign will be posted on the fence along Pajarito Rd.
28	19N	6E	28	Sign will be posted at the entrance to the remote research site's parking lot
29	19N	6E	29	Sign will be posted at the entrance to the remote research site's parking lot
30	19N	6E	30	Sign will be posted at the Guard House
31	19N	6E	31	Sign will be posted on the fence along NM4
32	19N	6E	32	Sign will be posted on the fence along NM4
33	19N	6E	33	Sign will be posted at the entrance to the remote research site's parking lot
34	19N	6E	34	Sign will be posted at the entrance to the remote research site's parking lot
35	19N	6E	35	Sign will be posted at the entrance to the remote research site's parking lot
36	19N	6E	36	Sign will be posted at the entrance to the remote research site's parking lot
37	19N	7E	19	Sign will be posted at the entrance gate to a Los Alamos County well
38	19N	7E	20	Sign will be posted on a fence adjacent to a commuter's parking lot
39	19N	7E	20	Sign will be posted at the entrance to a remote research site's parking lot
40	19N	7E	31	Sign will be posted on the fence along Pajarito Rd.

GROUND WATER DISCHARGE PERMIT APPLICATION
PART B: OPERATIONAL, MONITORING, CONTINGENCY AND CLOSURE PLANS
GENERAL FORM (VARIOUS FACILITY TYPES)

Operational Plan *[Section 20.6.2.3106.C, 3109.C NMAC]*

B-1. **Source(s) of the Discharge.** Describe what generates the wastewater, sludge or other discharges processed and/or disposed of at your facility. Identify all sources. Attach additional pages, if needed. See Supplemental Instructions.

See Appendix B (previously submitted with the June 30, 2010, application). Tables 1-4, for the sources, characteristics, and volumes of all discharges to the TA-46 SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and discharges/transfers within the effluent reuse system.

B-2. **Discharge Quantity.** Describe the methods/calculations used to determine the maximum discharge volume listed in Item A-6 in Part A of your application. Attach additional pages, if needed. See Supplemental Instructions.

See Appendix B (previously submitted with the June 30, 2010, application). Tables 1-4, for the sources, characteristics, and volumes of all discharges to the TA-46 SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and discharges/transfers within the effluent reuse system.

B-3. **Site Map.** Attach a site map showing the components of your proposed system and relevant surrounding features, clearly labeled, such as:

- treatment units
- lagoons
- tanks
- sumps
- manure separators
- land application fields
- domestic wastewater reuse areas
- pits
- stockpiles
- leachfields
- sludge drying beds
- roads
- buildings
- supply wells
- monitoring wells
- extraction/injection wells
- arroyos
- nearby water bodies such as ponds or canals
- property boundaries
- other permitted discharges
- required setbacks
- north arrow

If map is not to scale, mark distances on the map.

☒ Site map is attached. **See Appendix E-Maps (previously submitted with the June 30, 2010, application).**

B-4. **Flood Protection**. Describe the methods used to prevent flooding and run-off at the facility (tank protection, berms, diversion channels, etc.)

The TA-46 SWWS Plant, the SERF, and the Sigma Mesa evaporation basins are located outside of the 100-yr floodplain. Source: LANL Floodplain Maps.

Additional information on the TA-46 SWWS Plant's site drainage was submitted in Appendix 2 of the April 1992 TA-46 SWWS Plant Discharge Plan Application.

B-5. **Plans and Specifications.** For new facilities and for new components of existing systems, attach plans and specifications certified by a New Mexico registered professional engineer. *[Section 20.6.2.1202 NMAC]*

☒ Not applicable because no new facilities are proposed.

☐ Plans and specifications are attached.

☐ Plans and specifications were previously submitted. Submittal date(s): _____

B-6. Description of Components. Provide descriptive details of all components of your processing, treatment, storage and/or disposal system. Include all components listed under Item A-8 in Part A.

Component	Description
SWWS Plant collection system	Pipelines, manholes, lift stations
SWWS Plant entrance works	Parshall flume, mechanical bar screen, aerated grit chamber
SWWS Plant equalization basins (2)	Two equalization basins for balancing day/night flows
SWWS Plant aeration basins (4)	Four aeration basins for nitrification/denitrification
SWWS Plant secondary clarifiers (2)	Two clarifiers to separate treated water from return activated sludge
SWWS Plant chlorine contact chamber	Disinfection of effluent with MIOX™ mixed oxidants
NPDES Outfall 13S to Canada del Buey	Parshall flume, totalizing meter, and programmable sampler
SWWS Plant sludge drying beds (16)	Synthetically-lined beds for drying waste sludge from the clarifiers
SWWS Plant holding pond & reuse pumps	Synthetically-lined pond for treated effluent & reuse pumps to TA-3
Sanitary holding tanks (15 currently active)	Holding tanks receiving wastewater for discharge to the SWWS Plant
Sandia Canyon NPDES Outfall 001	Parshall flume and totalizing meter
SWWS Reuse Tank	500,000 gallon above ground storage tank
Sanitary Effluent Reclamation Facility (SERF)	Microfiltration followed by reverse osmosis (RO)
Sigma Mesa evaporation basins (4)	Synthetically-lined evaporation basins (4) with leak detection
TA-3 SCC cooling towers	Cooling tower receiving blended product/effluent from SERF/SWWS
TA-3 Power Plant	Boilers
Sandia Canyon NPDES Outfall 03A027	Discharge pipe

B-7. Operational Plan. Attach a detailed description of how you operate your processing, treatment, storage and/or disposal system.

Animal feeding operations: include stormwater management, nutrient management plans, method for mixing irrigation and wastewater.

Domestic wastewater treatment facilities: include pre-treatment, solids management, vegetation management for land application.

Facilities using reclaimed domestic wastewater above ground: include proposed water quality classification(s), effluent monitoring, setbacks, irrigation schedules, etc. that will result in protection of public health and the environment. Please refer to *NMED Ground Water Quality Bureau Guidance: Above-Ground Use of Reclaimed Domestic Wastewater* for further information. A copy of the guidance document is available on the NMED website www.nmenv.state.nm.us under "Ground Water Quality".

☒ Operational plan is attached. **See Appendix C (CD) (previously submitted with the June 30, 2010, application).**

☐ Operational plan was previously submitted. Submittal date(s): _____

B-8. System Maintenance. Attach a description of the operations and maintenance procedures which ensure that your processing, treatment and disposal system functions properly; e.g., inspections, pumping schedules, equipment maintenance, etc.

☒ O & M procedures are attached. **See Appendix C (CD) (previously submitted with the June 30, 2010, application).**

☐ O & M procedures were previously submitted. Submittal date(s): _____

B-9. Backflow Prevention. If wastewater is used for land application or irrigation, describe methods used to protect wells from contamination by wastewater backflow. For new facilities or new systems at an existing facility, only air gap or reduced pressure valve assemblies are acceptable methods.

a) Clearly describe and/or sketch the location of air gaps or devices and attach specifications.

The potable and reuse systems are physically separate. All reuse lines are non-potable.

b) Describe how devices are maintained. **N/A**

B-10. Water Rights. Animal feeding operations which land apply wastewater must attach documentation of irrigation water rights for the proposed land application fields, sufficient to sustain the intended crop rotation.

☐ Water right documentation is attached.

☒ Not applicable.

B-11. Past Ground Water Monitoring Results. *This item applies only to existing facilities seeking renewal and/or modification of a Discharge Permit that required ground water monitoring.*

a) Attach a graph or a table showing all analytical results from ground water sampling at your facility. If preparing graphs, a separate graph should be developed for each constituent, except that nitrate and TKN may be shown on the same graph. Multiple wells may be shown on the same graph. See Supplemental Instructions for sample table and graph. **Appendix D (previously submitted with the June 30, 2010, application) presents graphs of Sandia Canyon alluvial, intermediate and regional aquifer groundwater quality from 2007-2010. Relatively present-day groundwater is represented by Sandia Canyon's alluvial wells and intermediate well SCI-1; in contrast, older waters representing pre-SWWS Plant discharges to Sandia Canyon occur at intermediate well SCI-2 and the regional aquifer wells. Groundwater quality data are available at: http://www.intellusnmdata.com/.**

b) If the monitoring results indicate that ground water standards have been violated or that there is an upward trend approaching standards, attach a description of what actions you have taken or will take to address the elevated concentrations. Ground water standards are listed in Section 20.6.2.3103 NMAC. See the Supplemental Instructions for frequently referenced standards. **No groundwater contamination from the facility subject to this permit application has occurred. Information on groundwater contamination at other sites at Los Alamos National Laboratory can be found in the Laboratory's 2011 Environmental Report (http://www.lanl.gov/community-environment/environmental-stewardship/environmental-report.php).**

Monitoring Plan *[Section 20.6.2.3107.A NMAC]*

B-12. Discharge Volumes. Describe how and where the monthly discharge volume at your facility will be. For all measuring devices, provide type, location, and units of measure including multipliers (e.g., gallons, gallons x 100, acre-ft, etc.) See Supplemental Instructions. Attach additional pages, if necessary.

Location	Type	Units of Measure
SWWS Plant Influent	Parshall flume w/ultrasonic level sensor	gal X 1000000
SWWS Effluent-Chlorine Contact Chamber	Parshall flume w/ultrasonic level sensor	gal X 1000000
Treated Wastewater (Outfall 13S)	Parshall flume w/ultrasonic level sensor	gal X 1000000
Reuse (force main to TA-3)	In-line flow meter downstream of reuse pump	gal X 1000000
Treated Wastewater (Outfall 001)	Parshall flume w/ultrasonic level sensor	gal X 1000000
Treated Wastewater (Outfall 03A027)	In-line totalizing meter at the SCC cooling towers	gallons
SERF RO Reject Stream to Sigma Mesa Evaporation Basins	Electromagnetic in-line totalizing meter	gallons

B-13. Discharge Quality Monitoring. Discharge Permits typically require that the discharge (treated wastewater, sludge, septage, etc.) be sampled on a regular basis. The frequency of sampling varies by type of facility, as do the contaminants of concern. Domestic and agricultural Discharge Permits typically require sampling for total Kjeldahl nitrogen (TKN), nitrate-nitrogen (NO_3-N), total dissolved solids (TDS) and chloride on a quarterly or semi-annual basis.

If reclaimed domestic wastewater will be discharged for above ground uses, testing of the discharge for additional parameters is appropriate. Please refer to the *NMED Ground Water Quality Bureau Guidance: Above-Ground Use of Reclaimed Domestic Wastewater* for further information.

In the space below, provide a description or sketch of the sampling point(s) to be used for sampling the discharge at your facility.

Discharge quality monitoring is currently conducted under Discharge Permit DP-857 at the following locations: (1) TA-46 SWWS Plant Reuse Wet Well, (2) NPDES Outfall 001, and (3) NPDES Outfall 03A027.

See the following NMED communications (Appendix A, previously submitted with the June 30, 2010, application)) for additional detail: January 1998 Discharge Permit DP-857 Renewal and October 2002 Discharge Permit DP-857 Modification.

B-14. **Ground Water Quality Monitoring.** Discharge Permits typically require that ground water samples be collected quarterly from properly constructed monitoring wells located downgradient from discharge locations. The samples must be analyzed for contaminants of concern. For most domestic and agricultural Discharge Permits, the typical contaminants of concern are total Kjeldahl nitrogen (TKN), nitrate-nitrogen (NO_3-N), total dissolved solids (TDS) and chloride.
Groundwater monitoring at LANL is predominantly conducted under the following three programs:

1. **Discharge Permit DP-857 monitoring per NMED renewal and modification permits (Appendix A, previously submitted with the June 30, 2010, application).**
2. **Monitoring of Los Alamos County's 12 regional aquifer water supply wells.**
3. **Consent Order monitoring per the most current version of the Interim Facility-Wide Groundwater Monitoring Plan.**

The programs referenced above are discussed in additional detail below.

<u>Discharge Permit DP-857 Monitoring</u>. Quarterly monitoring is conducted at alluvial well CDBO-6 and reported to the NMED in discharge permit reports (See Appendix A, previously submitted with the June 30, 2010, application). Water quality data are posted to a publicly accessible web site (http://www.intellusnmdata.com/) and published annually in the Laboratory's Environmental Report (http://www.lanl.gov/community-environment/environmental-stewardship/environmental-report.php).

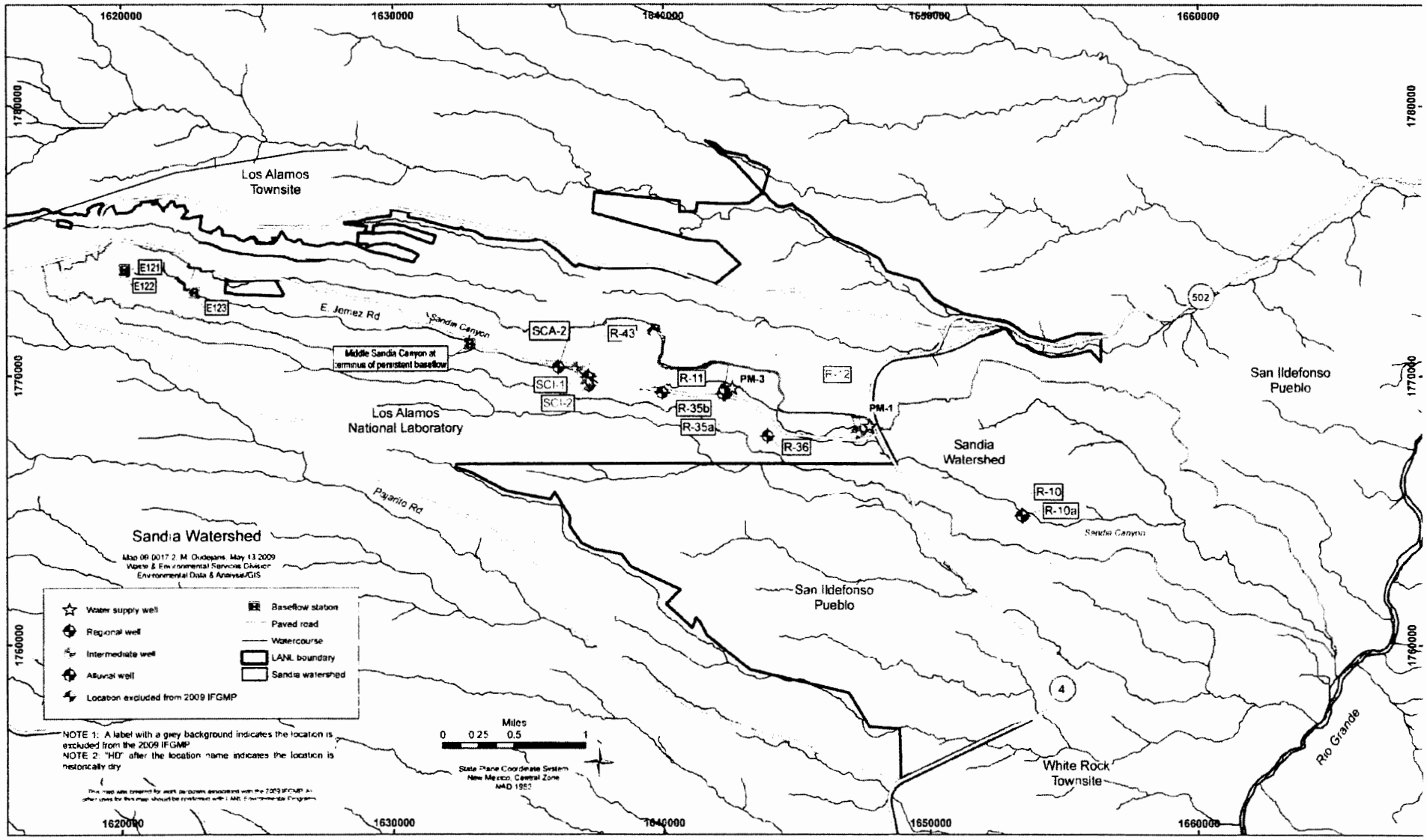
<u>Los Alamos County Supply Well Monitoring</u>. The Los Alamos County Utilities Department routinely monitors the quality of the drinking water produced by their regional aquifer water supply wells. Water quality data are posted to the publicly accessible web site (http://www.intellusnmdata.com/) and published annually in the Laboratory's Environmental Report (http://www.lanl.gov/community-environment/environmental-stewardship/environmental-report.php).

<u>Consent Order Monitoring.</u> Monitoring of the alluvial, intermediate, and regional groundwater below Sandia Canyon is conducted in accordance with the most current version of the Interim Facility-Wide Groundwater Monitoring Plan. Water quality data are submitted to the NMED in the Periodic Monitoring Reports (PMRs), posted to a publicly accessible web site (http://www.intellusnmdata.com/), and published annually in the Laboratory's Environmental Report (http://www.lanl.gov/community-environment/environmental-stewardship/environmental-report.php). The following Sandia Canyon groundwater monitoring wells are included in the most current version of the Interim Facility-Wide Groundwater Monitoring Plan:

- **Alluvial well SCA-2;**
- **Perched-intermediate wells R-12, SCI-1 and SCI-2; and**
- **Regional wells R-10, R-10a, R-11, R-35a, R-35b, R-36, and R-43.**

Relatively present-day groundwater is represented by Sandia Canyon's alluvial wells and intermediate well SCI-1; in contrast, older waters representing pre-SWWS Plant discharges to Sandia Canyon occur at intermediate well SCI-2 and the regional aquifer wells.

The map below shows the previously referenced Sandia Canyon monitoring wells.



For existing facilities:

Indicate number of existing monitoring wells: **11**

Attach copies of monitoring well logs. **Well logs available on request.**

☐ Well logs attached. ☐ Well logs cannot be located..

☐ Well logs previously submitted. Submittal date(s):

Attach copy of monitoring well survey (typically not applicable if fewer than 3 monitoring wells).

☒ Survey attached. ☐ No survey has been conducted.

See location map. ☐ Survey previously submitted. Submittal date(s):

B-15. Other Monitoring. In addition to discharge volumes, discharge quality monitoring and ground water sampling, Discharge Permits typically require the following monitoring, depending on the type of facility:

- inspection and pumping of septic tanks, grease tanks, lift stations—**See Appendix C (previously submitted with the June 30, 2010, application), Lift Stations Operational Inspection & Maintenance Procedure.**
- inspection of leachfields—**NA**
- inspection of lagoons—**See monitoring requirements in the October 1, 2002, Discharge Permit Modification, DP-857 (Appendix C, previously submitted with the June 30, 2010, application).**
- process testing for treatment plants—**See Appendix C (previously submitted with the June 30, 2010, application), O&M Manual**.
- land application data sheets (LADS) **–NA**
- tracking of chemical fertilizer applications to land application areas—**NA**
- soil sampling (agricultural and selected other facilities land applying wastewater)—**NA**
- harvested plant material testing (agricultural facilities)—**NA**

Optional: In the space below (or as an attachment), you may propose revisions or additions to the other standard monitoring requirements for your type of facility. If you do, provide the rationale for your proposal.

Contingency Plan *[Section 20.6.2.3107.A.10 NMAC]*

B-16. System Failure. Describe your contingency plan in the event there is a failure of your wastewater or discharge system (e.g., wastewater back-up, pump failure, pipe breaks, tank overflow, leachfield failure, saturated fields etc.)
The TA-46 SWWS Plant contingency plan includes, but is not limited to, the following:

- **LANL maintains procedures that document the appropriate response to system failures at the TA-46 SWWS Plant:**

  1. **The SWWS Plant's *Operation & Maintenance Manual* (See Appendix C (previously submitted with the June 30, 2010, application)) provides specific instructions for Emergency Operating Plans & Procedures (Chap 8), Safety (Chap 9), and Emergency Power Generator (Chap 10.5).**

  2. **The administrative procedure, *Unusual Influent—Wastewater Operations*, provides specific instructions for responding to off-spec influent that may pose a risk to the plant's operations.**

- **LANL maintains a gravity discharge at NPDES Permitted Outfall 13S to Cañada del Buey in the event that the force main fails and/or the TA-3 reuse system is unable to receive treated effluent.**

- **LANL maintains an emergency on-call network of certified operators in the event of a system failure during non-working hours.**

- **LANL maintains an on-site emergency power generator and redundancy on all critical pumps, blowers, and MIOX disinfectant generators.**

B-17. Contingency Leachfield Location. *This item applies only if your disposal system includes a leachfield.* Identify a location on your site map (Item B-3) for a contingency leachfield in the event that your leachfield must be replaced. If no land is available for a contingency leachfield at an existing facility, describe how you will address a failed leachfield. New facilities must provide for a contingency leachfield location.

NA

B-18. Other Contingencies. Discharge Permits typically contain standard contingencies to address:

- exceeding wastewater quality limits—**See Nos. 1 & 2 Below.**
- violation of ground water or surface water standards—**See Nos. 1 & 2 Below**
- spills or illegal releases of wastewater—**See Nos. 1 & 2 Below**
- migration of soil nitrogen--**NA**
- loading nitrogen above limit—**NA**

Propose additional contingency plans, if appropriate:

1. **The January 7, 1998, Discharge Plan (DP-857) Renewal letter issued by the NMED contains four contingencies. See Appendix A (previously submitted with the June 30, 2010, application).**

2. **The October 1, 2002, Discharge Permit Modification (DP-857) approval letter issued by the NMED contains two contingencies. See Appendix A (previously submitted with the June 30, 2010, application).**

Closure Plan *[Section 20.6.2.3107(A)11 NMAC]*

B-18. Facility Closure and Post-Closure Monitoring. Discharge Permits contain standard requirements to address the closure of part or all of your discharge system, as follows:

- cap or plug lines to prevent the flow of wastewater to treatment or disposal system
- empty and remove or backfill tanks
- empty lagoons, perforate or remove liners, re-grade to surface topography
- appropriately dispose of solids
- regrade and cover stockpiles at mine facilities
- continue ground water monitoring for at least two years, longer as appropriate
- enact contingency plans if ground water standards are violated
- financial assurance may be required.

Propose additional closure plans in the space below or as an attachment, if appropriate:

No additional closure plans are proposed.

Please Note: You must also complete Part C of the application.

GROUND WATER DISCHARGE PERMIT APPLICATION
PART C: SITE INFORMATION
All Facilities

C-1. Area Map. Attach a current area map showing roads and clearly mark the location of your facility.

C-2. Directions to Site. Provide driving directions to the site from the nearest town or, if located in a town, from an easily identifiable location.

From Santa Fe, NM, take US-285 north to Pojoaque, NM. Take NM-502 west towards Los Alamos, NM.

C-3. Topographic Map. Attach a copy of the appropriate US Geological Survey topographic map. You may provide just the relevant portion. USGS maps are available at many outdoor equipment stores or bookstores, from the USGS at www.usgs.gov or 1-888-ASKUSGS, and from commercial websites.

On the map clearly indicate the location of your facility. Also identify the approximate locations of all wells within 1,000 feet of your discharge locations. The Office of the State Engineer has a searchable database of supply wells on its website at www.ose.state.nm.us.
See Appendix E (previously submitted with the June 30, 2010, application).

☐ USGS map attached with facility location and neighboring wells marked.

C-4. Flood Potential. Attach a copy of the latest Federal Emergency Management Agency (FEMA) flood map with your facility's location clearly marked, to the best of your ability. Information about how to obtain this map, formally known as a Flood Insurance Rate Map (FIRM) is available at www.fema.gov, insurance agencies or county government offices. A site specific analysis may be substituted.
Flood plain mapping by LANL shows that the TA-46 SWWS Plant, the SERF, and the Sigma Mesa evaporation basins are located outside of the 100-yr floodplain.

☐ FEMA map or site-specific analysis attached.

☒ Previously submitted and still up-to-date. Submittal date(s): **April 1992. Discharge Plan Application, Appendix 2, Plant Site Drainage Analysis**

C-5. Soils. Attach either:

a) A copy of the appropriate Natural Resource Conservation Service (NRCS) soil survey map, with your site clearly identified to the best of your ability. Include the descriptive information for soils associated with the discharge locations. To obtain the map, contact your local NRCS office – there is one in every county.

b) A site-specific assessment showing the soils classifications. This is preferred over the more generalized NRCS surveys.

☐ NRCS soil survey or site-specific assessment attached.

☒ Previously submitted. Submittal date(s): **April 1992. Discharge Plan Application, Appendix 5, Plant Site Geotechnical Report.**

C-6. Geology. Provide information on the geology beneath the site by attaching relevant portions of geologic reports, well logs for on-site or nearby wells, or site specific assessments. A variety of geology publications and resources are available from the New Mexico Bureau of Geology and Mineral Resources at http://geoinfo.nmt.edu or 505-835-5420 (Socorro). Well logs are available from the New Mexico State Engineer's Office at http://www.ose.state.nm.us/.

See Appendix D (CD) (previously submitted with the June 30, 2010, application) containing the following LANL geologic reports:

1. **Hydrogeologic Studies of the Pajarito Plateau, 1998-2004 (LA-14263-MS)**
2. **2009 Hydrogeologic Site Atlas (LA-UR-09-3763)**

☒Geologic report attached. ☐ Well log(s) attached.

☐ Geologic information previously submitted. Submittal date(s): _____

C-7. Ground Water Hydrology. Ground water hydrology refers to the occurrence, distribution, movement and chemistry of ground water. The ground water hydrology at your site will determine in large part whether your discharge will adversely affect ground water quality. You may need to present detailed information in order to "demonstrate that the Discharge Permit will not result in concentrations in excess of the standards of Section 20.6.2.3103 NMAC or the presence of any toxic pollutant." (20.2.3106.C.7 NMAC)

At a minimum, provide information below on the direction of ground water flow. Ground water may not flow in the same direction as water on the surface of the ground. A monitoring well survey is one of the best methods to determine the direction of ground water flow at a particular site. Such surveys are routinely required for many Discharge Permit locations.

If a survey is not available, check with well drillers, the city water department, staff at the Office of the State Engineer, environmental consultants or other knowledgeable persons in your area. In addition, relevant reports have been published for some areas. See the OSE website at www.ose.state.nm.us or the NMBGMR website at http://geoinfo.nmt.edu.

Direction of ground water flow: **Southeast. See Appendix E-Maps (previously submitted with the June 30, 2010, application)**

If ground water flow shifts seasonally, describe here:

Reference:

☐ On-site well survey attached. ☐ Previously submitted. Submittal date(s):

☐ Nearby well survey attached. ☐ Previously submitted. Submittal date(s):

☒Other. Specify: **See Appendix D (CD) (previously submitted with the June 30, 2010, application) containing the following LANL reports:**
1. **Hydrogeologic Studies of the Pajarito Plateau, 1998-2004 (LA-14263-MS)**
2. **2009 Hydrogeologic Site Atlas (LA-UR-09-3763)**

☐ Relevant portion attached. ☐ Previously submitted. Submittal date(s):
Attach any additional information available about ground water hydrology at the site.

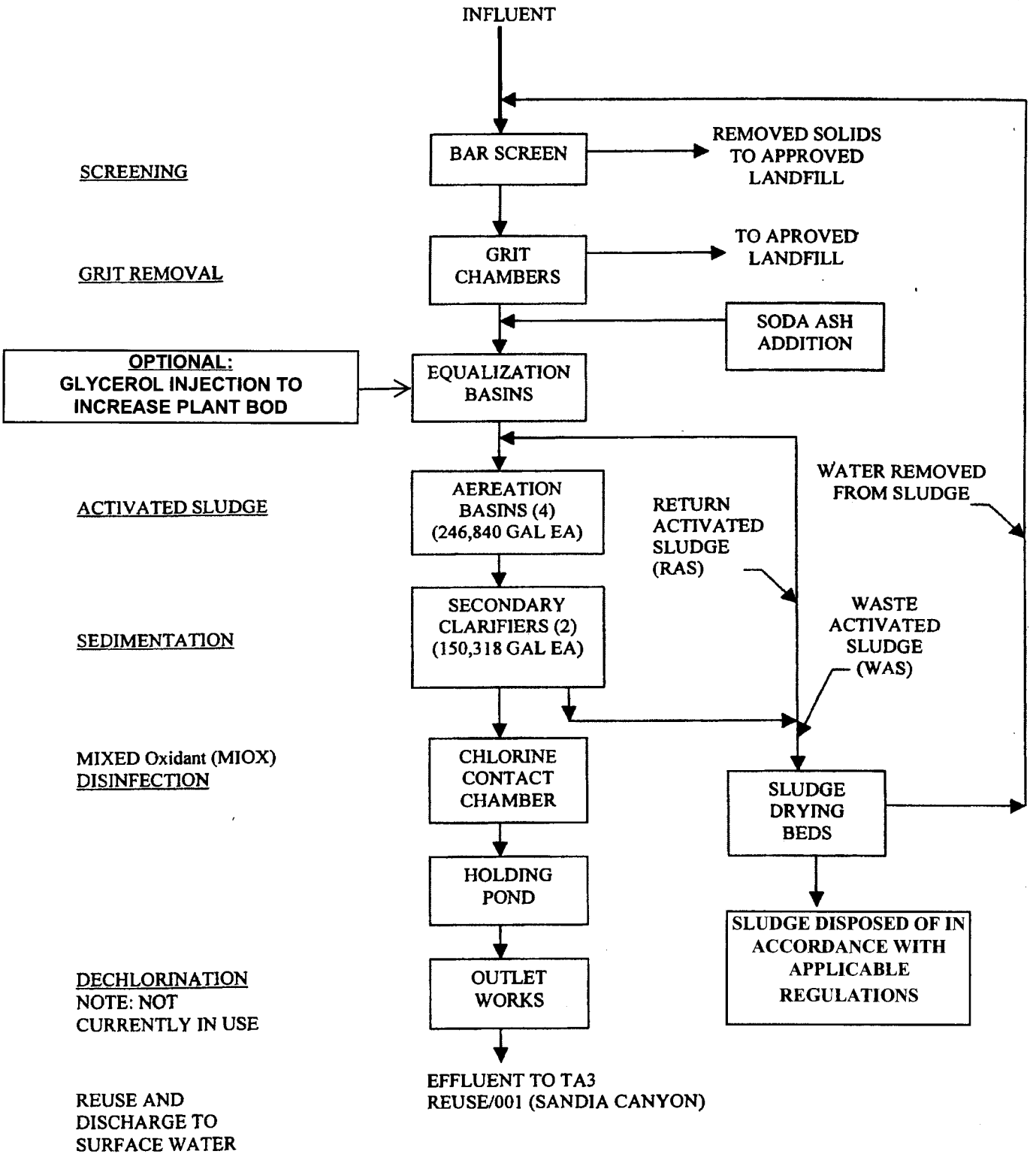
C-8. Other Permitted Discharge Locations. If applicable, list other locations of wastewater or stormwater discharges on your site that are not described in this application and indicate what permits apply to them. Examples include discharges from small septic systems (covered by Liquid Waste Permits, discharges to surface waters under a NPDES permit, a discharge covered by a separate Discharge Permit, etc. Be sure these other discharge locations are identified on the site map required in Item B-3.

Discharge Type	Permit Identification
SWWS Plant	NPDES Permit NM0028355, Outfall 13S; Discharge Permit DP-857
RLWTF	NPDES Permit NM0028355, Outfall 051; Discharge Permit Application DP-1132
HEWTF	NPDES Permit NM0028355, Outfall 05A055
Cooling Towers (7)	NPDES Permit NM0028355, Outfalls 03A022, 03A027, 03A048, 03A113, 03A160, 03A181, and 03A199
Power Plant	NPDES Permit NM0028355, Outfall 001
Septic Systems (12)	Discharge Permit Application DP-1589 (Application resubmitted on June 25, 2010)
Storm water from SWMUs	NPDES Individual Storm Water Permit NM0030759.
Storm water from construction sites	NPDES Storm Water Construction General Permit Program
Storm water from industrial activity	NPDES Permit NMR05GB21, Multi-Sector General Permit for storm water discharges associated with industrial activity

C-9. Other Information. Describe below or attach any additional information to demonstrate that your proposed discharge plan will be protective of ground water quality, public health and property. **Since August 1992, the SWWS Plant has demonstrated a consistent record of quality and excellence, including numerous awards from the wastewater treatment industry. Of the six Level 4 operators currently working at the SWWS Plant, two have been at their station since day one. Excellence in operations includes a 20-yr record of no NPDES permit exceedances and consistently achieving nitrate removal to below the NMWQCC Regulation 3103 ground water standard.**

APPENDIX B

SANITARY WASTEWATER SYSTEMS (SWWS) PLANT
TA-46 BUILDING 333 (ADMIN. /CONTROL ROOM/LAB)
Revised 12/12/12



Appendix B_Sources, Characteristics, and Volumes of Wastewater Influent to the SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and Reuse Sites. Revised 12/12/2012

Table 1.0. Sources and Characteristics of Influent to the TA-46 Sanitary Wastewater Systems (SWWS) Plant.

#	Influent Source	Influent Type	Characteristics	Conveyance	Maximum Daily Influent (GPD)
1	LANL buildings	Sanitary (domestic)	Domestic-type wastewater from fixtures such as restrooms, showers, kitchens, janitor sinks, floor drains, water fountains, and cafeterias.	Collection	600,000
2	LANL buildings	Industrial	Non-toxic wastewater from various industrial and research-type activities such as cooling towers, fire protection systems, backflow preventers, pump seals, mechanical room leaks, mechanical repair shops, and photographic darkrooms.	Collection	
3	Los Alamos County Customers	Sanitary	Domestic-type wastewater from typical residential dwellings such as toilets, lavatories, showers, and kitchen/laundry appliances.	Collection	
4	Holding tanks	Sanitary	Domestic-type wastewater from fixtures such as restrooms, showers, kitchens, janitor sinks, floor drains, and water fountains.	Truck	
5	Portable toilets	Sanitary	Non-toxic wastewater from portable toilets (porta-potties).	Truck	
6	Precipitation (seasonal)	Stormwater (industrial)	Ground and surface water infiltrating into the collection system.	Collection	
7	Consent Order Activities	Groundwater (industrial)	Groundwater produced during well drilling, development, rehabilitation, or sampling.	Truck	
8	Power Plant Boilers	Industrial	Non-toxic wastewater from the TA-3 Power Plant boilers.	Collection	
9	SERF	Industrial	SERF RO reject wastewater	Collection	

Appendix B_Sources, Characteristics, and Volumes of Wastewater Influent to the SWWS Plant, SERF, Sigma Mesa Evaporation Basins, and Reuse Sites. Revised 12/12/2012

Table 2.0. Sources of Influent to the TA-3 Sanitary Effluent Reclamation Facility (SERF).

#	Influent Source	Influent Type	Characteristics	Conveyance	Maximum Daily Influent (GPD)
1	TA-46 SWWS Plant	Treated Effluent (domestic/industrial)	Treated effluent from the TA-46 SWWS Plant to the SERF.	Pipe	600,000
2	SCC Cooling Towers	Industrial	Non-toxic wastewater from the SCC cooling tower blow-down.	Pipe	250,000

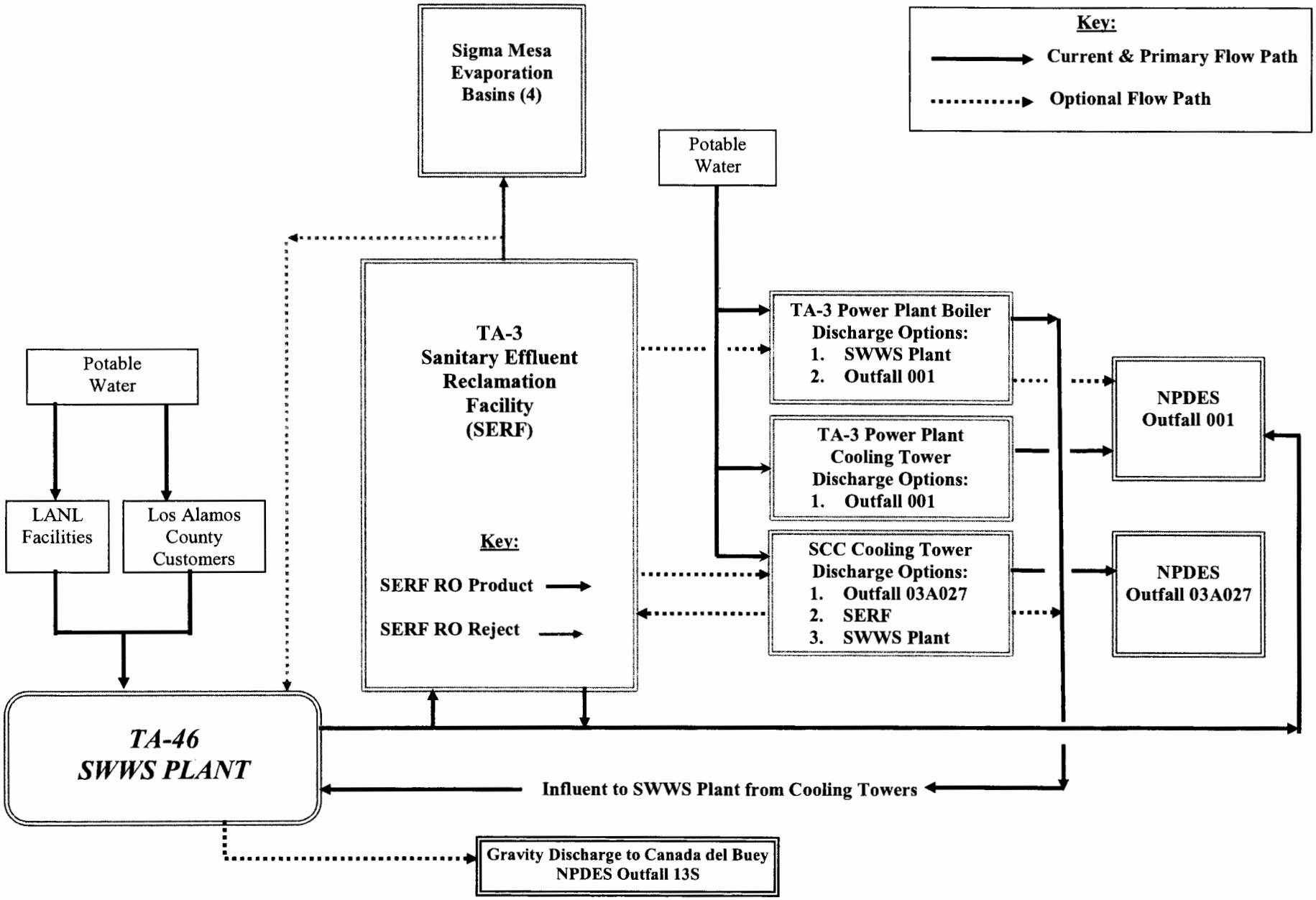
Table 3.0. Sources of Influent to the Sigma Mesa Evaporation Basins.

#	Influent Source	Influent Type	Characteristics	Conveyance	Maximum Daily Influent (GPD)
1	SERF	Industrial	(1) Reject wastewater from SERF treatment units. (2) Pure product water or blended product water from SERF treatment units.	Pipe	10,000
2	Consent Order Activities	Groundwater (industrial)	Groundwater produced during well drilling, development, rehabilitation, or sampling.	Truck	variable depending upon basin capacity

Table 4.0. Facilities Receiving Treated Water From the SERF.

#	Recipient	Use	Characteristics	Conveyance	Average Daily Flow (GPD)
1	SCC Cooling Towers	Industrial	SERF product and SWWS Plant effluent blended as make-up water for the SCC Cooling Towers.	Pipe	600,000
2	Power Plant Boilers	Industrial	SERF product water used as make-up water for the Power Plant boilers.	Pipe	

APPENDIX B_FIGURE 1_LANL SANITARY EFFLUENT REUSE SYSTEM SCHEMATIC_REVISED 12/12/12



APPENDIX F

PERMIT APPLICATION SECTION A-10, DISCHARGE QUALITY

EFFLUENT QUALITY MONITORING DATA

DATA SOURCE: www.intellusnmdata.com

NPDES OUTFALL 001

NPDES OUTALL 03A027

SWWS PLANT REUSE WET WELL

ENV-RCRA-12-0272

LAUR-12-26859

TABLE OF CONTENTS

TABLE 1. GENERAL INORGANICS

TABLE 2. METALS

TABLE 3. SEMI-VOLATILE ORGANIC COMPOUNDS

TABLE 4. PESTICIDES/HERBICIDES/PCBS

TABLE 5. VOLATILE ORGANIC COMPOUNDS

Analytical Laboratory Qualifier Codes.	
Lab Qual Code	**Lab Qual Desc**
*	(Inorganic) - Duplicate Analysis (relative percent difference) not within control limits.
B	(Organic) - Analyte present in the blank and the sample. (Inorganic) - reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
BJ	See B code and see J code
BJP	See B code, see J code and see P code
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
D	The result for this analyte was reported from a dilution.
DJ	See D code and see J code
DNA	did not analyze due to broken equipment.
E	Analyte exceeded the concentration range (Organics). The serial dilution was exceeded (Inorganics)
E*	See E code and see * code.
EJ	See E code and see J code
EJ*	See E code, See J code and see * code
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance critera as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively idenififed compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	See E code and see N code
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance critera as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively idenififed compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded.
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance criteria.
HJ	See H code and see J code
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a blank, since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(Inorganic) -The associated numerical value is an estimated quantity. (Organic) - The associated numerical value is an estimated quantity.
J*	See J code and see * code.
JB	See J code and see B code
JN	See J code and see N code

JN*	See J code, see N code and see * code
JP	See J code and see P code
N	(Inorganic) - Spiked sample recovery not within control limits.
N*	See N code and see * code.
N*E	See N code, see * code and see E code
NE	See N code and see E code
P	Percent difference between the results on the two columns during the analysis differed by more than 40%.
PJ	See P code and see J code
U	The material was analyzed for, but was not detected above the level of the associated numeric value.
U*	See U code and see * code
UD	See U code and see D code.
UE	See U code and see E code
UE*	See U code, see E code and see * code
UEN	See U code, see E code and see N code
UH	See U code and see H code.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	This code is no longer used.
UN	EPA Flag (Inorganic) Compound was analyzed for,but not detected and spiked sample recovery not within control limits.
UN*	EPA Flag (Inorganic) -see U code, see N code, and see * code.
X	Lab suspects result is a nondetect despite positive quantification results.

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
NPDES Outfall 01A001	11/15/12	Ammonia as Nitrogen	0.257	mg/L		Y	EPA:350.1	SWWS46-13-24772	UF
NPDES Outfall 01A001	8/16/12	Ammonia as Nitrogen	0.139	mg/L		Y	EPA:350.1	SWWS46-12-22928	UF
NPDES Outfall 01A001	5/1/12	Ammonia as Nitrogen	0.179	mg/L		N	EPA:350.1	SWWS46-12-13874	UF
NPDES Outfall 01A001	2/23/12	Ammonia as Nitrogen	0.0754	mg/L		Y	EPA:350.1	SWWS46-12-10422	UF
NPDES Outfall 01A001	12/8/11	Ammonia as Nitrogen	0.113	mg/L		Y	EPA:350.1	SWWS46-12-1813	UF
NPDES Outfall 01A001	9/1/11	Ammonia as Nitrogen	0.1	mg/L		Y	EPA:350.1	SWWS46-11-26441	UF
NPDES Outfall 01A001	8/9/11	Ammonia as Nitrogen	0.0435	mg/L	J	Y	EPA:350.1	NPDES001-11-13853	UF
NPDES Outfall 01A001	5/26/11	Ammonia as Nitrogen	0.053	mg/L		Y	EPA:350.1	SWWS46-11-13862	UF
NPDES Outfall 01A001	2/22/11	Ammonia as Nitrogen	0.069	mg/L		Y	EPA:350.1	SWWS46-11-4852	UF
NPDES Outfall 01A001	11/10/10	Ammonia as Nitrogen	0.093	mg/L		Y	EPA:350.1	SWWS46-11-2073	UF
NPDES Outfall 01A001	8/19/10	Ammonia as Nitrogen	0.061	mg/L		Y	EPA:350.1	SWWS46-10-25645	UF
NPDES Outfall 01A001	5/28/10	Ammonia as Nitrogen	0.051	mg/L		Y	EPA:350.1	SWWS46-10-19045	UF
NPDES Outfall 01A001	2/23/10	Ammonia as Nitrogen	0.016	mg/L	J	N	EPA:350.1	SWWS46-10-13630	UF
NPDES Outfall 01A001	11/18/09	Ammonia as Nitrogen	0.162	mg/L		Y	EPA:350.1	SWWS46-10-6914	UF
NPDES Outfall 01A001	8/20/09	Ammonia as Nitrogen	0.039	mg/L	J	N	EPA:350.1	SWWS46-09-12227	UF
NPDES Outfall 01A001	6/2/09	Ammonia as Nitrogen	0.061	mg/L		Y	EPA:350.1	SWWS46-09-9851	UF
NPDES Outfall 01A001	2/24/09	Ammonia as Nitrogen	0.232	mg/L		Y	EPA:350.1	SWWS46-09-4454	UF
NPDES Outfall 01A001	11/21/08	Ammonia as Nitrogen	0.057	mg/L		Y	EPA:350.1	GU081001A00102	UF
NPDES Outfall 01A001	8/12/08	Ammonia as Nitrogen	0.088	mg/L		Y	EPA:350.1	GU080801A00102	UF
NPDES Outfall 01A001	5/28/08	Ammonia as Nitrogen	0.146	mg/L		N	EPA:350.1	GU080501A00102	UF
NPDES Outfall 01A001	2/26/08	Ammonia as Nitrogen	0.05	mg/L		Y	EPA:350.1	GU080201A00102	UF
NPDES Outfall 01A001	11/15/12	Chloride	38.1	mg/L		Y	EPA:300.0	SWWS46-13-24772	UF
NPDES Outfall 01A001	8/16/12	Chloride	35.7	mg/L		Y	EPA:300.0	SWWS46-12-22928	UF
NPDES Outfall 01A001	5/1/12	Chloride	87.6	mg/L		Y	EPA:300.0	SWWS46-12-13874	UF
NPDES Outfall 01A001	2/23/12	Chloride	89	mg/L		Y	EPA:300.0	SWWS46-12-10422	UF
NPDES Outfall 01A001	12/8/11	Chloride	135	mg/L		Y	EPA:300.0	SWWS46-12-1813	UF
NPDES Outfall 01A001	9/1/11	Chloride	68.9	mg/L		Y	EPA:300.0	SWWS46-11-26441	UF
NPDES Outfall 01A001	8/9/11	Chloride	48.9	mg/L		Y	EPA:300.0	NPDES001-11-13853	UF
NPDES Outfall 01A001	5/26/11	Chloride	76.8	mg/L		Y	EPA:300.0	SWWS46-11-13862	UF
NPDES Outfall 01A001	2/22/11	Chloride	121	mg/L		Y	EPA:300.0	SWWS46-11-4852	UF
NPDES Outfall 01A001	11/10/10	Chloride	104	mg/L		Y	EPA:300.0	SWWS46-11-2073	UF
NPDES Outfall 01A001	8/19/10	Chloride	77.1	mg/L		Y	EPA:300.0	SWWS46-10-25645	UF
NPDES Outfall 01A001	5/28/10	Chloride	79.2	mg/L		Y	EPA:300.0	SWWS46-10-19045	UF
NPDES Outfall 01A001	2/23/10	Chloride	37.6	mg/L		Y	EPA:300.0	SWWS46-10-13630	UF
NPDES Outfall 01A001	11/18/09	Chloride	148	mg/L		Y	EPA:300.0	SWWS46-10-6914	UF
NPDES Outfall 01A001	8/20/09	Chloride	109	mg/L		Y	EPA:300.0	SWWS46-09-12227	UF
NPDES Outfall 01A001	6/2/09	Chloride	115	mg/L		Y	EPA:300.0	SWWS46-09-9851	UF
NPDES Outfall 01A001	2/24/09	Chloride	18.5	mg/L		Y	EPA:300.0	SWWS46-09-4454	UF
NPDES Outfall 01A001	11/21/08	Chloride	130	mg/L		Y	EPA:300.0	GU081001A00102	UF
NPDES Outfall 01A001	8/12/08	Chloride	65.6	mg/L		Y	EPA:300.0	GU080801A00102	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
NPDES Outfall 01A001	5/28/08	Chloride	9.63	mg/L		Y	EPA:300.0	GU080501A00102	UF
NPDES Outfall 01A001	2/26/08	Chloride	130	mg/L		Y	EPA:300.0	GU080201A00102	UF
NPDES Outfall 01A001	8/9/11	Cyanide (Total)	0.00245	mg/L	J	Y	EPA:335.4	NPDES001-11-13853	UF
NPDES Outfall 01A001	8/9/11	Fluoride	0.352	mg/L		Y	EPA:300.0	NPDES001-11-13853	UF
NPDES Outfall 01A001	11/15/12	Nitrate-Nitrite as Nitrogen	2.18	mg/L		Y	EPA:353.2	SWWS46-13-24772	UF
NPDES Outfall 01A001	8/16/12	Nitrate-Nitrite as Nitrogen	0.535	mg/L		Y	EPA:353.2	SWWS46-12-22928	UF
NPDES Outfall 01A001	5/1/12	Nitrate-Nitrite as Nitrogen	0.352	mg/L	J	Y	EPA:353.2	SWWS46-12-13874	UF
NPDES Outfall 01A001	2/23/12	Nitrate-Nitrite as Nitrogen	0.58	mg/L		Y	EPA:353.2	SWWS46-12-10422	UF
NPDES Outfall 01A001	12/8/11	Nitrate-Nitrite as Nitrogen	1.16	mg/L		Y	EPA:353.2	SWWS46-12-1813	UF
NPDES Outfall 01A001	9/1/11	Nitrate-Nitrite as Nitrogen	1.55	mg/L		Y	EPA:353.2	SWWS46-11-26441	UF
NPDES Outfall 01A001	8/9/11	Nitrate-Nitrite as Nitrogen	0.449	mg/L	J	Y	EPA:353.2	NPDES001-11-13853	UF
NPDES Outfall 01A001	5/26/11	Nitrate-Nitrite as Nitrogen	0.827	mg/L		Y	EPA:353.2	SWWS46-11-13862	UF
NPDES Outfall 01A001	2/22/11	Nitrate-Nitrite as Nitrogen	0.471	mg/L	J	Y	EPA:353.2	SWWS46-11-4852	UF
NPDES Outfall 01A001	11/10/10	Nitrate-Nitrite as Nitrogen	0.725	mg/L		Y	EPA:353.2	SWWS46-11-2073	UF
NPDES Outfall 01A001	8/19/10	Nitrate-Nitrite as Nitrogen	0.378	mg/L		Y	EPA:353.2	SWWS46-10-25645	UF
NPDES Outfall 01A001	5/28/10	Nitrate-Nitrite as Nitrogen	0.8	mg/L		Y	EPA:353.2	SWWS46-10-19045	UF
NPDES Outfall 01A001	2/23/10	Nitrate-Nitrite as Nitrogen	1.38	mg/L		Y	EPA:353.2	SWWS46-10-13630	UF
NPDES Outfall 01A001	11/18/09	Nitrate-Nitrite as Nitrogen	1.24	mg/L		Y	EPA:353.2	SWWS46-10-6914	UF
NPDES Outfall 01A001	8/20/09	Nitrate-Nitrite as Nitrogen	0.795	mg/L		Y	EPA:353.2	SWWS46-09-12227	UF
NPDES Outfall 01A001	6/2/09	Nitrate-Nitrite as Nitrogen	0.446	mg/L		Y	EPA:353.2	SWWS46-09-9851	UF
NPDES Outfall 01A001	2/24/09	Nitrate-Nitrite as Nitrogen	0.95	mg/L		Y	EPA:353.2	SWWS46-09-4454	UF
NPDES Outfall 01A001	11/21/08	Nitrate-Nitrite as Nitrogen	0.96	mg/L		Y	EPA:353.2	GU081001A00102	UF
NPDES Outfall 01A001	8/12/08	Nitrate-Nitrite as Nitrogen	2.18	mg/L		Y	EPA:353.2	GU080801A00102	UF
NPDES Outfall 01A001	5/28/08	Nitrate-Nitrite as Nitrogen	0.575	mg/L		Y	EPA:353.2	GU080501A00102	UF
NPDES Outfall 01A001	2/26/08	Nitrate-Nitrite as Nitrogen	3.12	mg/L		Y	EPA:353.2	GU080201A00102	UF
NPDES Outfall 01A001	8/9/11	Sulfate	20.4	mg/L		Y	EPA:300.0	NPDES001-11-13853	UF
NPDES Outfall 01A001	11/15/12	Total Dissolved Solids	231	mg/L		Y	EPA:160.1	SWWS46-13-24772	UF
NPDES Outfall 01A001	8/16/12	Total Dissolved Solids	256	mg/L		Y	EPA:160.1	SWWS46-12-22928	UF
NPDES Outfall 01A001	5/1/12	Total Dissolved Solids	483	mg/L		Y	EPA:160.1	SWWS46-12-13874	UF
NPDES Outfall 01A001	2/23/12	Total Dissolved Solids	424	mg/L		Y	EPA:160.1	SWWS46-12-10422	UF
NPDES Outfall 01A001	12/8/11	Total Dissolved Solids	474	mg/L		Y	EPA:160.1	SWWS46-12-1813	UF
NPDES Outfall 01A001	9/1/11	Total Dissolved Solids	444	mg/L		Y	EPA:160.1	SWWS46-11-26441	UF
NPDES Outfall 01A001	5/26/11	Total Dissolved Solids	438	mg/L		Y	EPA:160.1	SWWS46-11-13862	UF
NPDES Outfall 01A001	2/22/11	Total Dissolved Solids	505	mg/L		Y	EPA:160.1	SWWS46-11-4852	UF
NPDES Outfall 01A001	11/10/10	Total Dissolved Solids	502	mg/L		Y	EPA:160.1	SWWS46-11-2073	UF
NPDES Outfall 01A001	8/19/10	Total Dissolved Solids	395	mg/L		Y	EPA:160.1	SWWS46-10-25645	UF
NPDES Outfall 01A001	5/28/10	Total Dissolved Solids	449	mg/L		Y	EPA:160.1	SWWS46-10-19045	UF
NPDES Outfall 01A001	2/23/10	Total Dissolved Solids	598	mg/L		Y	EPA:160.1	SWWS46-10-13630	UF
NPDES Outfall 01A001	11/18/09	Total Dissolved Solids	514	mg/L		Y	EPA:160.1	SWWS46-10-6914	UF
NPDES Outfall 01A001	8/20/09	Total Dissolved Solids	422	mg/L		Y	EPA:160.1	SWWS46-09-12227	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
NPDES Outfall 01A001	6/2/09	Total Dissolved Solids	448	mg/L		Y	EPA:160.1	SWWS46-09-9851	UF
NPDES Outfall 01A001	2/24/09	Total Dissolved Solids	520	mg/L		Y	EPA:160.1	SWWS46-09-4454	UF
NPDES Outfall 01A001	11/21/08	Total Dissolved Solids	448	mg/L		Y	EPA:160.1	GU081001A00102	UF
NPDES Outfall 01A001	8/12/08	Total Dissolved Solids	365	mg/L		Y	EPA:160.1	GU080801A00102	UF
NPDES Outfall 01A001	5/28/08	Total Dissolved Solids	320	mg/L		Y	EPA:160.1	GU080501A00102	UF
NPDES Outfall 01A001	2/26/08	Total Dissolved Solids	488	mg/L		Y	EPA:160.1	GU080201A00102	UF
NPDES Outfall 01A001	11/15/12	Total Kjeldahl Nitrogen	0.453	mg/L		Y	EPA:351.2	SWWS46-13-24772	UF
NPDES Outfall 01A001	8/16/12	Total Kjeldahl Nitrogen	0.289	mg/L		Y	EPA:351.2	SWWS46-12-22928	UF
NPDES Outfall 01A001	5/1/12	Total Kjeldahl Nitrogen	0.566	mg/L		Y	EPA:351.2	SWWS46-12-13874	UF
NPDES Outfall 01A001	2/23/12	Total Kjeldahl Nitrogen	0.296	mg/L		Y	EPA:351.2	SWWS46-12-10422	UF
NPDES Outfall 01A001	12/8/11	Total Kjeldahl Nitrogen	0.852	mg/L		Y	EPA:351.2	SWWS46-12-1813	UF
NPDES Outfall 01A001	9/1/11	Total Kjeldahl Nitrogen	0.0444	mg/L	J	Y	EPA:351.2	SWWS46-11-26441	UF
NPDES Outfall 01A001	8/9/11	Total Kjeldahl Nitrogen	0.035	mg/L	U	N	EPA:351.2	NPDES001-11-13853	UF
NPDES Outfall 01A001	5/26/11	Total Kjeldahl Nitrogen	0.539	mg/L		Y	EPA:351.2	SWWS46-11-13862	UF
NPDES Outfall 01A001	2/22/11	Total Kjeldahl Nitrogen	0.688	mg/L		Y	EPA:351.2	SWWS46-11-4852	UF
NPDES Outfall 01A001	11/10/10	Total Kjeldahl Nitrogen	0.717	mg/L		Y	EPA:351.2	SWWS46-11-2073	UF
NPDES Outfall 01A001	8/19/10	Total Kjeldahl Nitrogen	0.523	mg/L		Y	EPA:351.2	SWWS46-10-25645	UF
NPDES Outfall 01A001	5/28/10	Total Kjeldahl Nitrogen	0.384	mg/L		Y	EPA:351.2	SWWS46-10-19045	UF
NPDES Outfall 01A001	2/23/10	Total Kjeldahl Nitrogen	0.051	mg/L	J	N	EPA:351.2	SWWS46-10-13630	UF
NPDES Outfall 01A001	11/18/09	Total Kjeldahl Nitrogen	0.691	mg/L		Y	EPA:351.2	SWWS46-10-6914	UF
NPDES Outfall 01A001	8/20/09	Total Kjeldahl Nitrogen	0.822	mg/L		Y	EPA:351.2	SWWS46-09-12227	UF
NPDES Outfall 01A001	6/2/09	Total Kjeldahl Nitrogen	0.506	mg/L		Y	EPA:351.2	SWWS46-09-9851	UF
NPDES Outfall 01A001	2/24/09	Total Kjeldahl Nitrogen	1.43	mg/L		Y	EPA:351.2	SWWS46-09-4454	UF
NPDES Outfall 01A001	11/21/08	Total Kjeldahl Nitrogen	0.149	mg/L		N	EPA:351.2	GU081001A00102	UF
NPDES Outfall 01A001	8/12/08	Total Kjeldahl Nitrogen	0.563	mg/L		Y	EPA:351.2	GU080801A00102	UF
NPDES Outfall 01A001	5/28/08	Total Kjeldahl Nitrogen	0.029	mg/L	U	N	EPA:351.2	GU080501A00102	UF
NPDES Outfall 01A001	2/26/08	Total Kjeldahl Nitrogen	0.516	mg/L		Y	EPA:351.2	GU080201A00102	UF
NPDES Outfall 03A027	11/15/12	Ammonia as Nitrogen	0.209	mg/L		Y	EPA:350.1	SWWS46-13-24773	UF
NPDES Outfall 03A027	8/16/12	Ammonia as Nitrogen	0.306	mg/L		Y	EPA:350.1	SWWS46-12-22929	UF
NPDES Outfall 03A027	5/1/12	Ammonia as Nitrogen	0.161	mg/L		N	EPA:350.1	SWWS46-12-13875	UF
NPDES Outfall 03A027	2/23/12	Ammonia as Nitrogen	0.237	mg/L		Y	EPA:350.1	SWWS46-12-10423	UF
NPDES Outfall 03A027	12/8/11	Ammonia as Nitrogen	0.216	mg/L		Y	EPA:350.1	SWWS46-12-1814	UF
NPDES Outfall 03A027	11/16/11	Ammonia as Nitrogen	0.0631	mg/L		Y	EPA:350.1	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	5/26/11	Ammonia as Nitrogen	0.223	mg/L		Y	EPA:350.1	SWWS46-11-13863	UF
NPDES Outfall 03A027	2/22/11	Ammonia as Nitrogen	0.052	mg/L		Y	EPA:350.1	SWWS46-11-4853	UF
NPDES Outfall 03A027	11/10/10	Ammonia as Nitrogen	0.06	mg/L		Y	EPA:350.1	SWWS46-11-2072	UF
NPDES Outfall 03A027	8/19/10	Ammonia as Nitrogen	0.764	mg/L		Y	EPA:350.1	SWWS46-10-25646	UF
NPDES Outfall 03A027	5/28/10	Ammonia as Nitrogen	0.376	mg/L		Y	EPA:350.1	SWWS46-10-19046	UF
NPDES Outfall 03A027	2/23/10	Ammonia as Nitrogen	0.035	mg/L	J	N	EPA:350.1	SWWS46-10-13631	UF
NPDES Outfall 03A027	11/18/09	Ammonia as Nitrogen	0.032	mg/L	J	N	EPA:350.1	SWWS46-10-6915	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
NPDES Outfall 03A027	8/20/09	Ammonia as Nitrogen	0.037	mg/L	J	N	EPA:350.1	SWWS46-09-12228	UF
NPDES Outfall 03A027	6/2/09	Ammonia as Nitrogen	0.016	mg/L	J	Y	EPA:350.1	SWWS46-09-9852	UF
NPDES Outfall 03A027	2/24/09	Ammonia as Nitrogen	0.1	mg/L		Y	EPA:350.1	SWWS46-09-4455	UF
NPDES Outfall 03A027	11/21/08	Ammonia as Nitrogen	0.227	mg/L		Y	EPA:350.1	GU081003A02703	UF
NPDES Outfall 03A027	8/12/08	Ammonia as Nitrogen	0.064	mg/L		Y	EPA:350.1	GU080803A02701	UF
NPDES Outfall 03A027	5/28/08	Ammonia as Nitrogen	0.192	mg/L		Y	EPA:350.1	GU080503A02701	UF
NPDES Outfall 03A027	2/26/08	Ammonia as Nitrogen	0.143	mg/L		Y	EPA:350.1	GU080203A02701	UF
NPDES Outfall 03A027	11/15/12	Chloride	11.5	mg/L		Y	EPA:300.0	SWWS46-13-24773	UF
NPDES Outfall 03A027	8/16/12	Chloride	16.6	mg/L		Y	EPA:300.0	SWWS46-12-22929	UF
NPDES Outfall 03A027	5/1/12	Chloride	12.1	mg/L		Y	EPA:300.0	SWWS46-12-13875	UF
NPDES Outfall 03A027	2/23/12	Chloride	19	mg/L		Y	EPA:300.0	SWWS46-12-10423	UF
NPDES Outfall 03A027	12/8/11	Chloride	15.8	mg/L		Y	EPA:300.0	SWWS46-12-1814	UF
NPDES Outfall 03A027	11/16/11	Chloride	19.7	mg/L		Y	EPA:300.0	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	5/26/11	Chloride	11.8	mg/L		Y	EPA:300.0	SWWS46-11-13863	UF
NPDES Outfall 03A027	2/22/11	Chloride	14.3	mg/L		Y	EPA:300.0	SWWS46-11-4853	UF
NPDES Outfall 03A027	11/10/10	Chloride	17.5	mg/L		Y	EPA:300.0	SWWS46-11-2072	UF
NPDES Outfall 03A027	8/19/10	Chloride	15.5	mg/L		Y	EPA:300.0	SWWS46-10-25646	UF
NPDES Outfall 03A027	5/28/10	Chloride	13.8	mg/L		Y	EPA:300.0	SWWS46-10-19046	UF
NPDES Outfall 03A027	2/23/10	Chloride	119	mg/L		Y	EPA:300.0	SWWS46-10-13631	UF
NPDES Outfall 03A027	11/18/09	Chloride	15.7	mg/L		Y	EPA:300.0	SWWS46-10-6915	UF
NPDES Outfall 03A027	8/20/09	Chloride	13.2	mg/L		Y	EPA:300.0	SWWS46-09-12228	UF
NPDES Outfall 03A027	6/2/09	Chloride	8.95	mg/L		Y	EPA:300.0	SWWS46-09-9852	UF
NPDES Outfall 03A027	2/24/09	Chloride	149	mg/L		Y	EPA:300.0	SWWS46-09-4455	UF
NPDES Outfall 03A027	11/21/08	Chloride	19.4	mg/L		Y	EPA:300.0	GU081003A02703	UF
NPDES Outfall 03A027	8/12/08	Chloride	18.6	mg/L		Y	EPA:300.0	GU080803A02701	UF
NPDES Outfall 03A027	5/28/08	Chloride	16.5	mg/L		Y	EPA:300.0	GU080503A02701	UF
NPDES Outfall 03A027	2/26/08	Chloride	19.1	mg/L		Y	EPA:300.0	GU080203A02701	UF
NPDES Outfall 03A027	11/16/11	Cyanide (Total)	0.0015	mg/L	U	N	EPA:335.4	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	11/16/11	Fluoride	0.591	mg/L		Y	EPA:300.0	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	11/15/12	Nitrate-Nitrite as Nitrogen	1.06	mg/L		Y	EPA:353.2	SWWS46-13-24773	UF
NPDES Outfall 03A027	8/16/12	Nitrate-Nitrite as Nitrogen	1.63	mg/L		Y	EPA:353.2	SWWS46-12-22929	UF
NPDES Outfall 03A027	5/1/12	Nitrate-Nitrite as Nitrogen	1.07	mg/L		Y	EPA:353.2	SWWS46-12-13875	UF
NPDES Outfall 03A027	2/23/12	Nitrate-Nitrite as Nitrogen	1.16	mg/L		Y	EPA:353.2	SWWS46-12-10423	UF
NPDES Outfall 03A027	12/8/11	Nitrate-Nitrite as Nitrogen	0.423	mg/L		Y	EPA:353.2	SWWS46-12-1814	UF
NPDES Outfall 03A027	11/16/11	Nitrate-Nitrite as Nitrogen	1.21	mg/L		Y	EPA:353.2	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	5/26/11	Nitrate-Nitrite as Nitrogen	0.962	mg/L		Y	EPA:353.2	SWWS46-11-13863	UF
NPDES Outfall 03A027	2/22/11	Nitrate-Nitrite as Nitrogen	0.855	mg/L		Y	EPA:353.2	SWWS46-11-4853	UF
NPDES Outfall 03A027	11/10/10	Nitrate-Nitrite as Nitrogen	1.33	mg/L		Y	EPA:353.2	SWWS46-11-2072	UF
NPDES Outfall 03A027	8/19/10	Nitrate-Nitrite as Nitrogen	0.81	mg/L		Y	EPA:353.2	SWWS46-10-25646	UF
NPDES Outfall 03A027	5/28/10	Nitrate-Nitrite as Nitrogen	2.13	mg/L		Y	EPA:353.2	SWWS46-10-19046	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
NPDES Outfall 03A027	2/23/10	Nitrate-Nitrite as Nitrogen	0.655	mg/L		Y	EPA:353.2	SWWS46-10-13631	UF
NPDES Outfall 03A027	11/18/09	Nitrate-Nitrite as Nitrogen	1.41	mg/L		Y	EPA:353.2	SWWS46-10-6915	UF
NPDES Outfall 03A027	8/20/09	Nitrate-Nitrite as Nitrogen	0.805	mg/L		Y	EPA:353.2	SWWS46-09-12228	UF
NPDES Outfall 03A027	6/2/09	Nitrate-Nitrite as Nitrogen	0.72	mg/L		Y	EPA:353.2	SWWS46-09-9852	UF
NPDES Outfall 03A027	2/24/09	Nitrate-Nitrite as Nitrogen	4.52	mg/L		Y	EPA:353.2	SWWS46-09-4455	UF
NPDES Outfall 03A027	11/21/08	Nitrate-Nitrite as Nitrogen	1.15	mg/L		Y	EPA:353.2	GU081003A02703	UF
NPDES Outfall 03A027	8/12/08	Nitrate-Nitrite as Nitrogen	1.27	mg/L		Y	EPA:353.2	GU080803A02701	UF
NPDES Outfall 03A027	5/28/08	Nitrate-Nitrite as Nitrogen	1.64	mg/L		Y	EPA:353.2	GU080503A02701	UF
NPDES Outfall 03A027	2/26/08	Nitrate-Nitrite as Nitrogen	0.682	mg/L		Y	EPA:353.2	GU080203A02701	UF
NPDES Outfall 03A027	11/16/11	Sulfate	49.1	mg/L		Y	EPA:300.0	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	11/15/12	Total Dissolved Solids	390	mg/L		Y	EPA:160.1	SWWS46-13-24773	UF
NPDES Outfall 03A027	8/16/12	Total Dissolved Solids	484	mg/L		Y	EPA:160.1	SWWS46-12-22929	UF
NPDES Outfall 03A027	5/1/12	Total Dissolved Solids	404	mg/L		Y	EPA:160.1	SWWS46-12-13875	UF
NPDES Outfall 03A027	2/23/12	Total Dissolved Solids	456	mg/L		Y	EPA:160.1	SWWS46-12-10423	UF
NPDES Outfall 03A027	12/8/11	Total Dissolved Solids	463	mg/L		Y	EPA:160.1	SWWS46-12-1814	UF
NPDES Outfall 03A027	5/26/11	Total Dissolved Solids	462	mg/L		Y	EPA:160.1	SWWS46-11-13863	UF
NPDES Outfall 03A027	2/22/11	Total Dissolved Solids	397	mg/L		Y	EPA:160.1	SWWS46-11-4853	UF
NPDES Outfall 03A027	11/10/10	Total Dissolved Solids	490	mg/L		Y	EPA:160.1	SWWS46-11-2072	UF
NPDES Outfall 03A027	8/19/10	Total Dissolved Solids	534	mg/L		Y	EPA:160.1	SWWS46-10-25646	UF
NPDES Outfall 03A027	5/28/10	Total Dissolved Solids	434	mg/L		Y	EPA:160.1	SWWS46-10-19046	UF
NPDES Outfall 03A027	2/23/10	Total Dissolved Solids	662	mg/L		Y	EPA:160.1	SWWS46-10-13631	UF
NPDES Outfall 03A027	11/18/09	Total Dissolved Solids	488	mg/L		Y	EPA:160.1	SWWS46-10-6915	UF
NPDES Outfall 03A027	8/20/09	Total Dissolved Solids	452	mg/L		Y	EPA:160.1	SWWS46-09-12228	UF
NPDES Outfall 03A027	6/2/09	Total Dissolved Solids	455	mg/L		Y	EPA:160.1	SWWS46-09-9852	UF
NPDES Outfall 03A027	2/24/09	Total Dissolved Solids	521	mg/L		Y	EPA:160.1	SWWS46-09-4455	UF
NPDES Outfall 03A027	11/21/08	Total Dissolved Solids	505	mg/L		Y	EPA:160.1	GU081003A02703	UF
NPDES Outfall 03A027	8/12/08	Total Dissolved Solids	545	mg/L		Y	EPA:160.1	GU080803A02701	UF
NPDES Outfall 03A027	5/28/08	Total Dissolved Solids	475	mg/L		Y	EPA:160.1	GU080503A02701	UF
NPDES Outfall 03A027	2/26/08	Total Dissolved Solids	552	mg/L		Y	EPA:160.1	GU080203A02701	UF
NPDES Outfall 03A027	11/15/12	Total Kjeldahl Nitrogen	1.47	mg/L		Y	EPA:351.2	SWWS46-13-24773	UF
NPDES Outfall 03A027	8/16/12	Total Kjeldahl Nitrogen	1.2	mg/L		Y	EPA:351.2	SWWS46-12-22929	UF
NPDES Outfall 03A027	5/1/12	Total Kjeldahl Nitrogen	0.841	mg/L		Y	EPA:351.2	SWWS46-12-13875	UF
NPDES Outfall 03A027	2/23/12	Total Kjeldahl Nitrogen	1.01	mg/L		Y	EPA:351.2	SWWS46-12-10423	UF
NPDES Outfall 03A027	12/8/11	Total Kjeldahl Nitrogen	1.01	mg/L		Y	EPA:351.2	SWWS46-12-1814	UF
NPDES Outfall 03A027	11/16/11	Total Kjeldahl Nitrogen	1.23	mg/L		Y	EPA:351.2	NPDES03A027-11-13855	UF
NPDES Outfall 03A027	5/26/11	Total Kjeldahl Nitrogen	0.853	mg/L		Y	EPA:351.2	SWWS46-11-13863	UF
NPDES Outfall 03A027	2/22/11	Total Kjeldahl Nitrogen	0.683	mg/L		Y	EPA:351.2	SWWS46-11-4853	UF
NPDES Outfall 03A027	11/10/10	Total Kjeldahl Nitrogen	0.937	mg/L		Y	EPA:351.2	SWWS46-11-2072	UF
NPDES Outfall 03A027	8/19/10	Total Kjeldahl Nitrogen	1.45	mg/L		Y	EPA:351.2	SWWS46-10-25646	UF
NPDES Outfall 03A027	5/28/10	Total Kjeldahl Nitrogen	1.16	mg/L		Y	EPA:351.2	SWWS46-10-19046	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
NPDES Outfall 03A027	2/23/10	Total Kjeldahl Nitrogen	0.551	mg/L		Y	EPA:351.2	SWWS46-10-13631	UF
NPDES Outfall 03A027	11/18/09	Total Kjeldahl Nitrogen	1.19	mg/L		Y	EPA:351.2	SWWS46-10-6915	UF
NPDES Outfall 03A027	8/20/09	Total Kjeldahl Nitrogen	1.43	mg/L		Y	EPA:351.2	SWWS46-09-12228	UF
NPDES Outfall 03A027	6/2/09	Total Kjeldahl Nitrogen	0.847	mg/L		Y	EPA:351.2	SWWS46-09-9852	UF
NPDES Outfall 03A027	2/24/09	Total Kjeldahl Nitrogen	0.731	mg/L		Y	EPA:351.2	SWWS46-09-4455	UF
NPDES Outfall 03A027	11/21/08	Total Kjeldahl Nitrogen	2.83	mg/L		Y	EPA:351.2	GU081003A02703	UF
NPDES Outfall 03A027	8/12/08	Total Kjeldahl Nitrogen	0.029	mg/L	U	N	EPA:351.2	GU080803A02701	UF
NPDES Outfall 03A027	5/28/08	Total Kjeldahl Nitrogen	0.292	mg/L		Y	EPA:351.2	GU080503A02701	UF
NPDES Outfall 03A027	2/26/08	Total Kjeldahl Nitrogen	1.36	mg/L		Y	EPA:351.2	GU080203A02701	UF
SWS Facility Reuse Well	11/15/12	Ammonia as Nitrogen	0.0619	mg/L		Y	EPA:350.1	SWWS46-13-24778	UF
SWS Facility Reuse Well	8/15/12	Ammonia as Nitrogen	0.229	mg/L		Y	EPA:350.1	SWWS46-12-22930	UF
SWS Facility Reuse Well	5/1/12	Ammonia as Nitrogen	0.084	mg/L		N	EPA:350.1	SWWS46-12-13876	UF
SWS Facility Reuse Well	2/23/12	Ammonia as Nitrogen	0.071	mg/L		Y	EPA:350.1	SWWS46-12-10424	UF
SWS Facility Reuse Well	12/8/11	Ammonia as Nitrogen	0.108	mg/L		Y	EPA:350.1	SWWS46-12-1815	UF
SWS Facility Reuse Well	9/1/11	Ammonia as Nitrogen	0.077	mg/L		Y	EPA:350.1	SWWS46-11-26443	UF
SWS Facility Reuse Well	5/26/11	Ammonia as Nitrogen	0.0586	mg/L		Y	EPA:350.1	SWWS46-11-13864	UF
SWS Facility Reuse Well	2/22/11	Ammonia as Nitrogen	0.2	mg/L		Y	EPA:350.1	SWWS46-11-4854	UF
SWS Facility Reuse Well	11/10/10	Ammonia as Nitrogen	0.063	mg/L		Y	EPA:350.1	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/19/10	Ammonia as Nitrogen	0.102	mg/L		Y	EPA:350.1	SWWS46-10-25647	UF
SWS Facility Reuse Well	5/28/10	Ammonia as Nitrogen	0.023	mg/L	J	Y	EPA:350.1	SWWS46-10-19047	UF
SWS Facility Reuse Well	2/23/10	Ammonia as Nitrogen	0.077	mg/L		N	EPA:350.1	SWWS46-10-13636	UF
SWS Facility Reuse Well	11/18/09	Ammonia as Nitrogen	0.07	mg/L		N	EPA:350.1	SWWS46-10-6916	UF
SWS Facility Reuse Well	8/20/09	Ammonia as Nitrogen	0.037	mg/L	J	N	EPA:350.1	SWWS46-09-12226	UF
SWS Facility Reuse Well	6/2/09	Ammonia as Nitrogen	0.024	mg/L	J	Y	EPA:350.1	SWWS46-09-9858	UF
SWS Facility Reuse Well	2/24/09	Ammonia as Nitrogen	0.053	mg/L		Y	EPA:350.1	SWWS46-09-4544	UF
SWS Facility Reuse Well	11/20/08	Ammonia as Nitrogen	0.113	mg/L		Y	EPA:350.1	GU081000OSRW02	UF
SWS Facility Reuse Well	8/12/08	Ammonia as Nitrogen	0.084	mg/L		Y	EPA:350.1	GU080800OSRW01	UF
SWS Facility Reuse Well	5/28/08	Ammonia as Nitrogen	0.102	mg/L		N	EPA:350.1	GU080500OSRW01	UF
SWS Facility Reuse Well	2/26/08	Ammonia as Nitrogen	0.046	mg/L	J	Y	EPA:350.1	GU080200OSRW01	UF
SWS Facility Reuse Well	11/15/12	Chloride	72.2	mg/L		Y	EPA:300.0	SWWS46-13-24778	UF
SWS Facility Reuse Well	8/15/12	Chloride	63	mg/L		Y	EPA:300.0	SWWS46-12-22930	UF
SWS Facility Reuse Well	5/1/12	Chloride	89.3	mg/L		Y	EPA:300.0	SWWS46-12-13876	UF
SWS Facility Reuse Well	2/23/12	Chloride	90.3	mg/L		Y	EPA:300.0	SWWS46-12-10424	UF
SWS Facility Reuse Well	12/8/11	Chloride	144	mg/L		Y	EPA:300.0	SWWS46-12-1815	UF
SWS Facility Reuse Well	9/1/11	Chloride	89.1	mg/L		Y	EPA:300.0	SWWS46-11-26443	UF
SWS Facility Reuse Well	5/26/11	Chloride	82.4	mg/L		Y	EPA:300.0	SWWS46-11-13864	UF
SWS Facility Reuse Well	2/22/11	Chloride	152	mg/L		Y	EPA:300.0	SWWS46-11-4854	UF
SWS Facility Reuse Well	11/10/10	Chloride	124	mg/L		Y	EPA:300.0	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/19/10	Chloride	111	mg/L		Y	EPA:300.0	SWWS46-10-25647	UF
SWS Facility Reuse Well	5/28/10	Chloride	131	mg/L		Y	EPA:300.0	SWWS46-10-19047	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
SWS Facility Reuse Well	2/23/10	Chloride	216	mg/L		Y	EPA:300.0	SWWS46-10-13636	UF
SWS Facility Reuse Well	11/18/09	Chloride	186	mg/L		Y	EPA:300.0	SWWS46-10-6916	UF
SWS Facility Reuse Well	8/20/09	Chloride	131	mg/L		Y	EPA:300.0	SWWS46-09-12226	UF
SWS Facility Reuse Well	6/2/09	Chloride	158	mg/L		Y	EPA:300.0	SWWS46-09-9858	UF
SWS Facility Reuse Well	2/24/09	Chloride	217	mg/L		Y	EPA:300.0	SWWS46-09-4544	UF
SWS Facility Reuse Well	11/20/08	Chloride	141	mg/L		Y	EPA:300.0	GU081000OSRW02	UF
SWS Facility Reuse Well	8/12/08	Chloride	66.4	mg/L		Y	EPA:300.0	GU080800OSRW01	UF
SWS Facility Reuse Well	5/28/08	Chloride	136	mg/L		Y	EPA:300.0	GU080500OSRW01	UF
SWS Facility Reuse Well	2/26/08	Chloride	175	mg/L		Y	EPA:300.0	GU080200OSRW01	UF
SWS Facility Reuse Well	8/15/12	Cyanide (Total)	0.00169	mg/L	J	Y	EPA:335.4	SWWS46-12-22932	F
SWS Facility Reuse Well	11/10/10	Cyanide (Total)	0.005	mg/L	U	N	EPA:335.4	SWWS46-11-2075	F
SWS Facility Reuse Well	8/20/09	Cyanide (Total)	0.00264	mg/L	J	Y	EPA:335.4	SWWS46-09-12236	F
SWS Facility Reuse Well	11/20/08	Cyanide (Total)	0.0015	mg/L	U	N	EPA:335.3	GF081000OSRW01	F
SWS Facility Reuse Well	11/20/08	Cyanide, Amenable to Chlorination	0.0015	mg/L	U	N	EPA:335.3	GF081000OSRW01	F
SWS Facility Reuse Well	8/15/12	Fluoride	0.275	mg/L		Y	EPA:300.0	SWWS46-12-22930	UF
SWS Facility Reuse Well	11/10/10	Fluoride	0.32	mg/L		Y	EPA:300.0	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/20/09	Fluoride	0.513	mg/L		Y	EPA:300.0	SWWS46-09-12226	UF
SWS Facility Reuse Well	11/20/08	Fluoride	0.241	mg/L		Y	EPA:300.0	GU081000OSRW01	UF
SWS Facility Reuse Well	11/15/12	Nitrate-Nitrite as Nitrogen	7.1	mg/L		Y	EPA:353.2	SWWS46-13-24778	UF
SWS Facility Reuse Well	8/15/12	Nitrate-Nitrite as Nitrogen	1.33	mg/L		Y	EPA:353.2	SWWS46-12-22930	UF
SWS Facility Reuse Well	5/1/12	Nitrate-Nitrite as Nitrogen	0.52	mg/L		Y	EPA:353.2	SWWS46-12-13876	UF
SWS Facility Reuse Well	2/23/12	Nitrate-Nitrite as Nitrogen	0.81	mg/L		Y	EPA:353.2	SWWS46-12-10424	UF
SWS Facility Reuse Well	12/8/11	Nitrate-Nitrite as Nitrogen	2.03	mg/L		Y	EPA:353.2	SWWS46-12-1815	UF
SWS Facility Reuse Well	9/1/11	Nitrate-Nitrite as Nitrogen	1.32	mg/L		Y	EPA:353.2	SWWS46-11-26443	UF
SWS Facility Reuse Well	5/26/11	Nitrate-Nitrite as Nitrogen	1.06	mg/L		Y	EPA:353.2	SWWS46-11-13864	UF
SWS Facility Reuse Well	2/22/11	Nitrate-Nitrite as Nitrogen	0.186	mg/L	J	Y	EPA:353.2	SWWS46-11-4854	UF
SWS Facility Reuse Well	11/10/10	Nitrate-Nitrite as Nitrogen	0.79	mg/L		Y	EPA:353.2	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/19/10	Nitrate-Nitrite as Nitrogen	0.278	mg/L		Y	EPA:353.2	SWWS46-10-25647	UF
SWS Facility Reuse Well	5/28/10	Nitrate-Nitrite as Nitrogen	0.785	mg/L		Y	EPA:353.2	SWWS46-10-19047	UF
SWS Facility Reuse Well	2/23/10	Nitrate-Nitrite as Nitrogen	1.97	mg/L		Y	EPA:353.2	SWWS46-10-13636	UF
SWS Facility Reuse Well	11/18/09	Nitrate-Nitrite as Nitrogen	2.71	mg/L		Y	EPA:353.2	SWWS46-10-6916	UF
SWS Facility Reuse Well	8/20/09	Nitrate-Nitrite as Nitrogen	1.03	mg/L		Y	EPA:353.2	SWWS46-09-12226	UF
SWS Facility Reuse Well	6/2/09	Nitrate-Nitrite as Nitrogen	0.184	mg/L		Y	EPA:353.2	SWWS46-09-9858	UF
SWS Facility Reuse Well	2/24/09	Nitrate-Nitrite as Nitrogen	4.73	mg/L		Y	EPA:353.2	SWWS46-09-4544	UF
SWS Facility Reuse Well	11/20/08	Nitrate-Nitrite as Nitrogen	0.68	mg/L		Y	EPA:353.2	GU081000OSRW02	UF
SWS Facility Reuse Well	8/12/08	Nitrate-Nitrite as Nitrogen	1.73	mg/L		Y	EPA:353.2	GU080800OSRW01	UF
SWS Facility Reuse Well	5/28/08	Nitrate-Nitrite as Nitrogen	0.483	mg/L		Y	EPA:353.2	GU080500OSRW01	UF
SWS Facility Reuse Well	2/26/08	Nitrate-Nitrite as Nitrogen	3.23	mg/L		Y	EPA:353.2	GU080200OSRW01	UF
SWS Facility Reuse Well	11/10/10	Perchlorate	0.2	ug/L	U	N	SW-846:6850	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/20/09	Perchlorate	0.418	ug/L		Y	SW-846:6850	SWWS46-09-12226	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
SWS Facility Reuse Well	8/15/12	Sulfate	19.2	mg/L		Y	EPA:300.0	SWWS46-12-22930	UF
SWS Facility Reuse Well	11/10/10	Sulfate	16.1	mg/L		Y	EPA:300.0	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/20/09	Sulfate	17.2	mg/L		Y	EPA:300.0	SWWS46-09-12226	UF
SWS Facility Reuse Well	11/20/08	Sulfate	12.1	mg/L		Y	EPA:300.0	GU081000OSRW01	UF
SWS Facility Reuse Well	11/15/12	Total Dissolved Solids	406	mg/L		Y	EPA:160.1	SWWS46-13-24778	UF
SWS Facility Reuse Well	8/15/12	Total Dissolved Solids	441	mg/L		Y	EPA:160.1	SWWS46-12-22930	UF
SWS Facility Reuse Well	5/1/12	Total Dissolved Solids	474	mg/L		Y	EPA:160.1	SWWS46-12-13876	UF
SWS Facility Reuse Well	2/23/12	Total Dissolved Solids	421	mg/L		Y	EPA:160.1	SWWS46-12-10424	UF
SWS Facility Reuse Well	12/8/11	Total Dissolved Solids	539	mg/L		Y	EPA:160.1	SWWS46-12-1815	UF
SWS Facility Reuse Well	9/1/11	Total Dissolved Solids	513	mg/L		Y	EPA:160.1	SWWS46-11-26443	UF
SWS Facility Reuse Well	5/26/11	Total Dissolved Solids	458	mg/L		Y	EPA:160.1	SWWS46-11-13864	UF
SWS Facility Reuse Well	2/22/11	Total Dissolved Solids	521	mg/L		Y	EPA:160.1	SWWS46-11-4854	UF
SWS Facility Reuse Well	11/10/10	Total Dissolved Solids	503	mg/L		Y	EPA:160.1	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/19/10	Total Dissolved Solids	475	mg/L		Y	EPA:160.1	SWWS46-10-25647	UF
SWS Facility Reuse Well	5/28/10	Total Dissolved Solids	467	mg/L		Y	EPA:160.1	SWWS46-10-19047	UF
SWS Facility Reuse Well	2/23/10	Total Dissolved Solids	652	mg/L		Y	EPA:160.1	SWWS46-10-13636	UF
SWS Facility Reuse Well	11/18/09	Total Dissolved Solids	554	mg/L		Y	EPA:160.1	SWWS46-10-6916	UF
SWS Facility Reuse Well	8/20/09	Total Dissolved Solids	482	mg/L		Y	EPA:160.1	SWWS46-09-12226	UF
SWS Facility Reuse Well	6/2/09	Total Dissolved Solids	532	mg/L		Y	EPA:160.1	SWWS46-09-9858	UF
SWS Facility Reuse Well	2/24/09	Total Dissolved Solids	617	mg/L		Y	EPA:160.1	SWWS46-09-4544	UF
SWS Facility Reuse Well	11/20/08	Total Dissolved Solids	479	mg/L		Y	EPA:160.1	GU081000OSRW02	UF
SWS Facility Reuse Well	8/12/08	Total Dissolved Solids	378	mg/L		Y	EPA:160.1	GU080800OSRW01	UF
SWS Facility Reuse Well	5/28/08	Total Dissolved Solids	492	mg/L		Y	EPA:160.1	GU080500OSRW01	UF
SWS Facility Reuse Well	2/26/08	Total Dissolved Solids	554	mg/L		Y	EPA:160.1	GU080200OSRW01	UF
SWS Facility Reuse Well	11/15/12	Total Kjeldahl Nitrogen	0.603	mg/L		Y	EPA:351.2	SWWS46-13-24778	UF
SWS Facility Reuse Well	8/15/12	Total Kjeldahl Nitrogen	0.887	mg/L		Y	EPA:351.2	SWWS46-12-22930	UF
SWS Facility Reuse Well	5/1/12	Total Kjeldahl Nitrogen	0.58	mg/L		Y	EPA:351.2	SWWS46-12-13876	UF
SWS Facility Reuse Well	2/23/12	Total Kjeldahl Nitrogen	0.313	mg/L		Y	EPA:351.2	SWWS46-12-10424	UF
SWS Facility Reuse Well	12/8/11	Total Kjeldahl Nitrogen	1.26	mg/L		Y	EPA:351.2	SWWS46-12-1815	UF
SWS Facility Reuse Well	9/1/11	Total Kjeldahl Nitrogen	0.1	mg/L	U	N	EPA:351.2	SWWS46-11-26443	UF
SWS Facility Reuse Well	5/26/11	Total Kjeldahl Nitrogen	0.514	mg/L		Y	EPA:351.2	SWWS46-11-13864	UF
SWS Facility Reuse Well	2/22/11	Total Kjeldahl Nitrogen	0.739	mg/L		Y	EPA:351.2	SWWS46-11-4854	UF
SWS Facility Reuse Well	11/10/10	Total Kjeldahl Nitrogen	0.858	mg/L		Y	EPA:351.2	SWWS46-11-2074	UF
SWS Facility Reuse Well	8/19/10	Total Kjeldahl Nitrogen	0.336	mg/L		Y	EPA:351.2	SWWS46-10-25647	UF
SWS Facility Reuse Well	5/28/10	Total Kjeldahl Nitrogen	0.038	mg/L	J	Y	EPA:351.2	SWWS46-10-19047	UF
SWS Facility Reuse Well	2/23/10	Total Kjeldahl Nitrogen	1.26	mg/L		Y	EPA:351.2	SWWS46-10-13636	UF
SWS Facility Reuse Well	11/18/09	Total Kjeldahl Nitrogen	0.728	mg/L		Y	EPA:351.2	SWWS46-10-6916	UF
SWS Facility Reuse Well	8/20/09	Total Kjeldahl Nitrogen	0.949	mg/L		Y	EPA:351.2	SWWS46-09-12226	UF
SWS Facility Reuse Well	6/2/09	Total Kjeldahl Nitrogen	0.43	mg/L		Y	EPA:351.2	SWWS46-09-9858	UF
SWS Facility Reuse Well	2/24/09	Total Kjeldahl Nitrogen	0.836	mg/L		Y	EPA:351.2	SWWS46-09-4544	UF

APPENDIX F Table 1. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, General Inorganics, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Field Sample ID	Filtered/Unfiltred
SWS Facility Reuse Well	11/20/08	Total Kjeldahl Nitrogen	0.564	mg/L		Y	EPA:351.2	GU081000OSRW02	UF
SWS Facility Reuse Well	8/12/08	Total Kjeldahl Nitrogen	0.397	mg/L		Y	EPA:351.2	GU080800OSRW01	UF
SWS Facility Reuse Well	5/28/08	Total Kjeldahl Nitrogen	0.517	mg/L		Y	EPA:351.2	GU080500OSRW01	UF
SWS Facility Reuse Well	2/26/08	Total Kjeldahl Nitrogen	0.782	mg/L		Y	EPA:351.2	GU080200OSRW01	UF
SWS Facility Reuse Well	8/15/12	Perchlorate	0.05	ug/L	U	N	SW-846:6850	SWWS46-12-22930	UF

APPENDIX F Table 2. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Metals, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 01A001	2/13/12	Aluminum	17.3	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-12-351
NPDES Outfall 01A001	1/18/12	Aluminum	15.9	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-12-266
NPDES Outfall 01A001	12/15/11	Aluminum	19.9	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-12-227
NPDES Outfall 01A001	11/3/11	Aluminum	17.4	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-12-181
NPDES Outfall 01A001	10/12/11	Aluminum	21.9	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-12-142
NPDES Outfall 01A001	9/20/11	Aluminum	15	ug/L	U	N	EPA:200.8	15	UF	NPDES001-11-27198
NPDES Outfall 01A001	8/17/11	Aluminum	15	ug/L	U	N	EPA:200.8	15	UF	NPDES001-11-24854
NPDES Outfall 01A001	8/9/11	Aluminum	19.8	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-13853
NPDES Outfall 01A001	7/12/11	Aluminum	16.9	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-23339
NPDES Outfall 01A001	6/10/11	Aluminum	16.6	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-14418
NPDES Outfall 01A001	5/5/11	Aluminum	34.7	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-10294
NPDES Outfall 01A001	4/6/11	Aluminum	25.7	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-7121
NPDES Outfall 01A001	3/16/11	Aluminum	18.3	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-5626
NPDES Outfall 01A001	2/16/11	Aluminum	15	ug/L	U	N	EPA:200.8	15	UF	NPDES001-11-4774
NPDES Outfall 01A001	1/13/11	Aluminum	23.2	ug/L	J	Y	EPA:200.8	15	UF	NPDES001-11-3244
NPDES Outfall 01A001	12/9/10	Aluminum	16.1	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-11-2696
NPDES Outfall 01A001	11/9/10	Aluminum	14	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-11-2045
NPDES Outfall 01A001	10/6/10	Aluminum	23.5	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-11-10
NPDES Outfall 01A001	9/14/10	Aluminum	28.9	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-10-26468
NPDES Outfall 01A001	8/10/10	Aluminum	36.6	ug/L		Y	EPA:200.8	10	UF	NPDES001-10-25017
NPDES Outfall 01A001	7/14/10	Aluminum	32.6	ug/L		N	EPA:200.8	10	UF	NPDES001-10-23437
NPDES Outfall 01A001	6/9/10	Aluminum	11.1	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-10-19056
NPDES Outfall 01A001	5/6/10	Aluminum	38.5	ug/L		Y	EPA:200.8	10	UF	NPDES001-10-17033
NPDES Outfall 01A001	4/15/10	Aluminum	23.4	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-10-15615
NPDES Outfall 01A001	3/17/10	Aluminum	38	ug/L		Y	EPA:200.8	10	UF	NPDES001-10-13568
NPDES Outfall 01A001	2/10/10	Aluminum	23.8	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-10-12307
NPDES Outfall 01A001	1/14/10	Aluminum	22.4	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-10-10792
NPDES Outfall 01A001	12/10/09	Aluminum	24.6	ug/L	J	Y	EPA:200.8	20	UF	NPDES001-10-7347
NPDES Outfall 01A001	11/18/09	Aluminum	50	ug/L	U	N	EPA:200.8	50	UF	NPDES001-10-4702
NPDES Outfall 01A001	10/7/09	Aluminum	141	ug/L		Y	EPA:200.8	10	UF	NPDES001-10-550
NPDES Outfall 01A001	9/16/09	Aluminum	25	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-09-13299
NPDES Outfall 01A001	8/19/09	Aluminum	26.9	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-09-10918
NPDES Outfall 01A001	7/15/09	Aluminum	21	ug/L	J	Y	EPA:200.8	10	UF	NPDES001-09-10914
NPDES Outfall 01A001	6/17/09	Aluminum	28.2	ug/L		Y	EPA:200.8	5	UF	NPDES001-09-8870
NPDES Outfall 01A001	5/13/09	Aluminum	21	ug/L	N	Y	EPA:200.8	5	UF	NPDES001-09-8864
NPDES Outfall 01A001	4/15/09	Aluminum	27.8	ug/L		N	EPA:200.8	5	UF	NPDES001-09-7086
NPDES Outfall 01A001	3/17/09	Aluminum	14.3	ug/L	J	Y	EPA:200.8	5	UF	NPDES001-09-4603
NPDES Outfall 01A001	2/18/09	Aluminum	6	ug/L	J	N	EPA:200.8	5	UF	NPDES001-09-2279
NPDES Outfall 01A001	1/14/09	Aluminum	12.8	ug/L	J	N	EPA:200.8	5	UF	NPDES001-09-1818
NPDES Outfall 01A001	12/11/08	Aluminum	35.5	ug/L		Y	EPA:200.8	5	UF	GU081101A00101
NPDES Outfall 01A001	11/5/08	Aluminum	19.6	ug/L		N	EPA:200.8	5	UF	GU081001A00103
NPDES Outfall 01A001	10/8/08	Aluminum	32.9	ug/L		Y	EPA:200.8	5	UF	GU081001A00101
NPDES Outfall 01A001	9/11/08	Aluminum	22.7	ug/L		Y	EPA:200.8	5	UF	GU080901A00101
NPDES Outfall 01A001	8/20/08	Aluminum	53.5	ug/L		Y	EPA:200.8	5	UF	GU080801A00101
NPDES Outfall 01A001	7/9/08	Aluminum	19.5	ug/L	J	Y	EPA:200.8	10	UF	GU080601A00102
NPDES Outfall 01A001	6/18/08	Aluminum	17.1	ug/L	J	Y	EPA:200.8	10	UF	GU080601A00101

APPENDIX F Table 2. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Metals, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 01A001	5/14/08	Aluminum	27.8	ug/L		Y	EPA:200.8	10	UF	GU080501A00101
NPDES Outfall 01A001	4/22/08	Aluminum	19.7	ug/L	J	Y	EPA:200.8	10	UF	GU080401A00101
NPDES Outfall 01A001	3/4/08	Aluminum	17	ug/L	J	Y	EPA:200.8	10	UF	GU080201A00103
NPDES Outfall 01A001	2/13/08	Aluminum	17.1	ug/L	J	Y	EPA:200.8	10	UF	GU080201A00101
NPDES Outfall 01A001	1/9/08	Aluminum	38.1	ug/L		Y	EPA:200.8	10	UF	GU080101A00101
NPDES Outfall 01A001	8/9/11	Antimony	1	ug/L	U	N	EPA:200.8	1	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Arsenic	1.9	ug/L	J	Y	EPA:200.8	1.7	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Arsenic	1.78	ug/L		Y	SW-846:7062M	1	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Barium	51	ug/L		Y	EPA:200.8	0.6	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Beryllium	0.2	ug/L	U	N	EPA:200.8	0.2	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Boron	54.6	ug/L		Y	EPA:200.8	4	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Cadmium	0.11	ug/L	U	N	EPA:200.8	0.11	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chromium	2.7	ug/L	J	Y	EPA:200.7	1	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Cobalt	0.11	ug/L	J	Y	EPA:200.8	0.1	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Copper	2.6	ug/L		Y	EPA:200.8	0.35	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Iron	53.2	ug/L	J	Y	EPA:200.7	30	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Lead	0.5	ug/L	U	N	EPA:200.8	0.5	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Manganese	10.6	ug/L		Y	EPA:200.8	1	UF	NPDES001-11-13853
NPDES Outfall 01A001	1/10/12	Mercury	0.0028	ug/L		Y	EPA:1631	0.2	UF	NPDES001-12-2061
NPDES Outfall 01A001	8/9/11	Mercury	0.066	ug/L	U	N	EPA:245.2	0.066	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Molybdenum	4.5	ug/L		Y	EPA:200.8	0.17	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nickel	0.8	ug/L	J	Y	EPA:200.8	0.5	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Selenium	1.5	ug/L	U	N	EPA:200.8	1.5	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Selenium	0.252	ug/L	B	Y	SW-846:7742M	0.1	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Silver	0.2	ug/L	U	N	EPA:200.8	0.2	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Thallium	0.45	ug/L	U	N	EPA:200.8	0.45	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Zinc	30	ug/L		Y	EPA:200.7	3.3	UF	NPDES001-11-13853
NPDES Outfall 03A027	11/16/11	Aluminum	51.1	ug/L		Y	EPA:200.8	15	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Antimony	1	ug/L	U	N	EPA:200.8	1	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Arsenic	5.4	ug/L		Y	EPA:200.8	1.7	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Arsenic	3.03	ug/L		Y	SW-846:7062M	0.076	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Barium	97.3	ug/L		Y	EPA:200.8	0.6	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Beryllium	0.2	ug/L	U	N	EPA:200.8	0.2	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Boron	84.6	ug/L		Y	EPA:200.8	4	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Cadmium	0.11	ug/L	U	N	EPA:200.8	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chromium	12	ug/L		Y	EPA:200.7	1	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Cobalt	0.1	ug/L	U	N	EPA:200.8	0.1	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	3/13/12	Copper	2.22	ug/L		Y	EPA:200.8	0.35	UF	NPDES03A027-12-12353
NPDES Outfall 03A027	11/16/11	Copper	2.2	ug/L		N	EPA:200.8	0.35	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/17/10	Copper	2.9	ug/L		Y	EPA:200.8	0.3	UF	NPDES03A027-11-2410
NPDES Outfall 03A027	7/8/09	Copper	1.24	ug/L		Y	EPA:200.8	0.3	UF	NPDES03A027-09-10941
NPDES Outfall 03A027	10/15/08	Copper	1.8	ug/L		Y	EPA:200.8	0.3	UF	GU081003A02702
NPDES Outfall 03A027	11/16/11	Iron	59.8	ug/L	J	Y	EPA:200.7	30	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Lead	0.5	ug/L	U	N	EPA:200.8	0.5	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Manganese	1.9	ug/L	J	Y	EPA:200.8	1	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/10/12	Mercury	0.0045	ug/L		Y	EPA:1631	0.2	UF	NPDES03A027-12-2060
NPDES Outfall 03A027	11/16/11	Mercury	0.066	ug/L	U	N	EPA:245.2	0.066	UF	NPDES03A027-11-13855

APPENDIX F Table 2. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Metals, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 03A027	11/16/11	Molybdenum	4.5	ug/L		Y	EPA:200.8	0.17	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nickel	1.1	ug/L	J	N	EPA:200.8	0.5	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Selenium	11.8	ug/L		Y	EPA:200.8	1.5	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Selenium	1.02	ug/L	N	Y	SW-846:7742M	0.2	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Silver	0.2	ug/L	U	N	EPA:200.8	0.2	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Thallium	0.45	ug/L	U	N	EPA:200.8	0.45	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Zinc	3.7	ug/L	J	Y	EPA:200.7	3.3	UF	NPDES03A027-11-13855
SWS Facility Reuse Well	8/15/12	Aluminum	68	ug/L	U	N	SW-846:6010B	68	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Aluminum	200	ug/L	U	N	SW-846:6010B	68	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Aluminum	200	ug/L	U	N	SW-846:6010B	68	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Aluminum	68	ug/L	U	N	EPA:200.7	68	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Antimony	1	ug/L	U	N	SW-846:6020	1	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Antimony	3	ug/L	U	N	SW-846:6020	0.5	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Antimony	0.606	ug/L	J	N	SW-846:6020	0.5	F	SWWS46-09-12236
SWS Facility Reuse Well	8/15/12	Arsenic	1.9	ug/L	J	Y	SW-846:6020	1.7	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Arsenic	2.42	ug/L	J	Y	SW-846:6020	1.5	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Arsenic	2.47	ug/L	J	Y	SW-846:6020	1.5	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Arsenic	5	ug/L	U	N	EPA:200.7	5	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Barium	14.5	ug/L		Y	SW-846:6010B	1	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Barium	57.7	ug/L		Y	SW-846:6010B	1	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Barium	7.67	ug/L		Y	SW-846:6010B	1	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Barium	26.5	ug/L		Y	EPA:200.7	1	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Beryllium	1	ug/L	U	N	SW-846:6010B	1	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Beryllium	5	ug/L	U	N	SW-846:6010B	1	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Beryllium	5	ug/L	U	N	SW-846:6010B	1	F	SWWS46-09-12236
SWS Facility Reuse Well	8/15/12	Boron	57.7	ug/L		Y	SW-846:6010B	15	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Boron	92.6	ug/L		Y	SW-846:6010B	15	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Boron	76.7	ug/L		Y	SW-846:6010B	15	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Boron	51	ug/L		Y	EPA:200.7	10	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Cadmium	0.11	ug/L	U	N	SW-846:6020	0.11	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Cadmium	1	ug/L	U	N	SW-846:6020	0.11	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Cadmium	1	ug/L	U	N	SW-846:6020	0.11	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Cadmium	0.11	ug/L	U	N	EPA:200.8	0.11	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Chromium	2	ug/L	U	N	SW-846:6020	2	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Chromium	4.75	ug/L	J	Y	SW-846:6020	2.5	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Chromium	2.86	ug/L	J	Y	SW-846:6020	2.5	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Chromium	1.8	ug/L	J	Y	EPA:200.8	1.5	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Cobalt	1	ug/L	U	N	SW-846:6010B	1	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Cobalt	5	ug/L	U	N	SW-846:6010B	1	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Cobalt	5	ug/L	U	N	SW-846:6010B	1	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Cobalt	1	ug/L	U	N	EPA:200.7	1	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Copper	4.2	ug/L	J	Y	SW-846:6010B	3	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Copper	10	ug/L	U	N	SW-846:6010B	3	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Copper	3.5	ug/L	J	Y	SW-846:6010B	3	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Copper	3.6	ug/L	J	Y	EPA:200.7	3	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Iron	121	ug/L		Y	SW-846:6010B	30	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Iron	99.6	ug/L	J	N	SW-846:6010B	30	F	SWWS46-11-2075

APPENDIX F Table 2. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Metals, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/20/09	Iron	65	ug/L	J	Y	SW-846:6010B	30	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Iron	67.9	ug/L	J	Y	EPA:200.7	25	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Lead	0.5	ug/L	U	N	SW-846:6020	0.5	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Lead	2	ug/L	U	N	SW-846:6020	0.5	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Lead	2	ug/L	U	N	SW-846:6020	0.5	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Lead	0.5	ug/L	U	N	EPA:200.8	0.5	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Manganese	18.7	ug/L		Y	SW-846:6010B	2	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Manganese	23.3	ug/L		Y	SW-846:6010B	2	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Manganese	21.9	ug/L		Y	SW-846:6010B	2	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Manganese	13.2	ug/L		Y	EPA:200.7	2	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Mercury	0.067	ug/L	U	N	EPA:245.2	0.067	F	SWWS46-12-22932
SWS Facility Reuse Well	8/15/12	Mercury	0.067	ug/L	U	N	EPA:245.2	0.067	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Mercury	0.2	ug/L	U	N	EPA:245.2	0.066	F	SWWS46-11-2075
SWS Facility Reuse Well	11/10/10	Mercury	0.2	ug/L	U	N	EPA:245.2	0.066	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Mercury	0.2	ug/L	U	N	EPA:245.2	0.066	F	SWWS46-09-12236
SWS Facility Reuse Well	8/20/09	Mercury	0.2	ug/L	U	N	EPA:245.2	0.066	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Mercury	0.067	ug/L	U	N	EPA:245.2	0.067	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Molybdenum	10.3	ug/L		Y	SW-846:6020	0.165	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Molybdenum	4.61	ug/L		Y	SW-846:6020	0.1	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Molybdenum	14.7	ug/L		Y	SW-846:6020	0.1	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Molybdenum	2.4	ug/L	J	Y	EPA:200.7	2	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Nickel	1.36	ug/L	J	Y	SW-846:6020	0.5	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Nickel	1.4	ug/L	J	Y	SW-846:6020	0.5	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Nickel	1.46	ug/L	J	Y	SW-846:6020	0.5	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Nickel	1	ug/L	U	N	EPA:200.7	1	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Selenium	1.5	ug/L	U	N	SW-846:6020	1.5	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Selenium	5	ug/L	U	N	SW-846:6020	1	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Selenium	5	ug/L	U	N	SW-846:6020	1	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Selenium	5	ug/L	U	N	EPA:200.7	5	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Silver	0.2	ug/L	U	N	SW-846:6020	0.2	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Silver	1	ug/L	U	N	SW-846:6020	0.2	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Silver	1	ug/L	U	N	SW-846:6020	0.2	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Silver	1	ug/L	U	N	EPA:200.7	1	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Thallium	0.45	ug/L	U	N	SW-846:6020	0.45	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Thallium	1	ug/L	U	N	SW-846:6020	0.3	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Thallium	0.352	ug/L	J	Y	SW-846:6020	0.3	F	SWWS46-09-12236
SWS Facility Reuse Well	8/15/12	Uranium	0.55	ug/L		Y	SW-846:6020	0.067	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Uranium	0.551	ug/L		Y	SW-846:6020	0.05	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Uranium	0.067	ug/L	J	Y	SW-846:6020	0.05	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Uranium	0.071	ug/L	J	Y	EPA:200.8	0.05	F	GF081000OSRW01
SWS Facility Reuse Well	8/15/12	Zinc	41.7	ug/L		Y	SW-846:6010B	3.3	F	SWWS46-12-22932
SWS Facility Reuse Well	11/10/10	Zinc	57.8	ug/L		Y	SW-846:6010B	3.3	F	SWWS46-11-2075
SWS Facility Reuse Well	8/20/09	Zinc	71.9	ug/L		Y	SW-846:6010B	3.3	F	SWWS46-09-12236
SWS Facility Reuse Well	11/20/08	Zinc	74.6	ug/L		Y	EPA:200.7	2	F	GF081000OSRW01

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 01A001	8/9/11	Acenaphthene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Acenaphthylene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Anthracene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzidine	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzo(a)anthracene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzo(a)pyrene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzo(b)fluoranthene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzo(g,h,i)perylene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzo(k)fluoranthene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bis(2-chloroethoxy)methane	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bis(2-chloroethyl)ether	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bis(2-ethylhexyl)phthalate	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bromophenyl-phenylether[4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Butylbenzylphthalate	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chloro-3-methylphenol[4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chloronaphthalene[2-]	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chlorophenol[2-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chlorophenyl-phenyl[4-] Ether	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chrysene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dibenz(a,h)anthracene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzidine[3,3'-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorophenol[2,4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Diethylphthalate	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dimethyl Phthalate	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dimethylphenol[2,4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Di-n-butylphthalate	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dinitro-2-methylphenol[4,6-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dinitrophenol[2,4-]	5.38	ug/L	U	N	SVOA	EPA:625	0.0054	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dinitrotoluene[2,4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dinitrotoluene[2,4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dinitrotoluene[2,6-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dinitrotoluene[2,6-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Di-n-octylphthalate	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Diphenylamine	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Diphenylhydrazine[1,2-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Fluoranthene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Fluorene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachlorobenzene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachlorobenzene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachlorobutadiene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachlorobutadiene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachlorocyclopentadiene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachloroethane	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Hexachloroethane	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Indeno(1,2,3-cd)pyrene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 01A001	8/9/11	Isophorone	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Naphthalene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Naphthalene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nitrobenzene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nitrobenzene	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nitrophenol[2-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nitrophenol[4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nitrosodimethylamine[N-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Nitroso-di-n-propylamine[N-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Oxybis(1-chloropropane)[2,2'-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Pentachlorophenol	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Phenanthrene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Phenol	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Pyrene	0.323	ug/L	U	N	SVOA	EPA:625	0.00032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Trichlorobenzene[1,2,4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Trichlorobenzene[1,2,4-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Trichlorophenol[2,4,6-]	3.23	ug/L	U	N	SVOA	EPA:625	0.0032	UF	NPDES001-11-13853
NPDES Outfall 03A027	11/16/11	Acenaphthene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Acenaphthylene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Anthracene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzidine	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzo(a)anthracene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzo(a)pyrene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzo(b)fluoranthene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzo(g,h,i)perylene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzo(k)fluoranthene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bis(2-chloroethoxy)methane	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bis(2-chloroethyl)ether	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bis(2-ethylhexyl)phthalate	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bromophenyl-phenylether[4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Butylbenzylphthalate	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chloro-3-methylphenol[4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chloronaphthalene[2-]	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chlorophenol[2-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chlorophenyl-phenyl[4-] Ether	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chrysene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dibenz(a,h)anthracene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzidine[3,3'-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorophenol[2,4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Diethylphthalate	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dimethyl Phthalate	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dimethylphenol[2,4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Di-n-butylphthalate	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dinitro-2-methylphenol[4,6-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dinitrophenol[2,4-]	5	ug/L	U	N	SVOA	EPA:625	0.005	UF	NPDES03A027-11-13855

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 03A027	11/16/11	Dinitrotoluene[2,4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dinitrotoluene[2,4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dinitrotoluene[2,6-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dinitrotoluene[2,6-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Di-n-octylphthalate	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Diphenylamine	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Diphenylhydrazine[1,2-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Fluoranthene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Fluorene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachlorobenzene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachlorobenzene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachlorobutadiene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachlorobutadiene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachlorocyclopentadiene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachloroethane	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Hexachloroethane	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Indeno(1,2,3-cd)pyrene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Isophorone	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Naphthalene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Naphthalene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nitrobenzene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nitrobenzene	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nitrophenol[2-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nitrophenol[4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nitrosodimethylamine[N-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Nitroso-di-n-propylamine[N-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Oxybis(1-chloropropane)[2,2'-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Pentachlorophenol	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Phenanthrene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Phenol	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Pyrene	0.3	ug/L	U	N	SVOA	EPA:625	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Trichlorobenzene[1,2,4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Trichlorobenzene[1,2,4-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Trichlorophenol[2,4,6-]	3	ug/L	U	N	SVOA	EPA:625	0.003	UF	NPDES03A027-11-13855
SWS Facility Reuse Well	8/15/12	Acenaphthene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Acenaphthene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.32	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Acenaphthene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.32	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Acenaphthene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.333	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Acenaphthylene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Acenaphthylene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Acenaphthylene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Acenaphthylene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Aniline	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aniline	10.2	ug/L	U	N	SVOA	SW-846:8270C	2.6	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aniline	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.6	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Aniline	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.69	UF	GU081000OSRW01

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/15/12	Anthracene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Anthracene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Anthracene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Anthracene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Atrazine	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Atrazine	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Atrazine	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Atrazine	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Azobenzene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Azobenzene	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Azobenzene	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Azobenzene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzidine	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzidine	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzidine	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzidine	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzo(a)anthracene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzo(a)anthracene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzo(a)anthracene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzo(a)anthracene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzo(a)pyrene	0.44	ug/L	U	N	SVOA	SW-846:8270C	0.44	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzo(a)pyrene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzo(a)pyrene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzo(a)pyrene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzo(b)fluoranthene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzo(b)fluoranthene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzo(b)fluoranthene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzo(b)fluoranthene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzo(g,h,i)perylene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzo(g,h,i)perylene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzo(g,h,i)perylene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzo(g,h,i)perylene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzo(k)fluoranthene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzo(k)fluoranthene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzo(k)fluoranthene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzo(k)fluoranthene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzoic Acid	14	ug/L	J	Y	SVOA	SW-846:8270C	6	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzoic Acid	20.4	ug/L	U	N	SVOA	SW-846:8270C	6.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzoic Acid	20.8	ug/L	U	N	SVOA	SW-846:8270C	6.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzoic Acid	21.5	ug/L	U	N	SVOA	SW-846:8270C	6.45	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzyl Alcohol	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzyl Alcohol	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzyl Alcohol	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Benzyl Alcohol	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Bis(2-chloroethoxy)methane	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bis(2-chloroethoxy)methane	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Bis(2-chloroethoxy)methane	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/20/08	Bis(2-chloroethoxy)methane	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Bis(2-chloroethyl)ether	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bis(2-chloroethyl)ether	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Bis(2-chloroethyl)ether	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Bis(2-chloroethyl)ether	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Bis(2-ethylhexyl)phthalate	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bis(2-ethylhexyl)phthalate	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Bis(2-ethylhexyl)phthalate	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Bis(2-ethylhexyl)phthalate	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Bromophenyl-phenylether[4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bromophenyl-phenylether[4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Bromophenyl-phenylether[4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Bromophenyl-phenylether[4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Butylbenzylphthalate	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Butylbenzylphthalate	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Butylbenzylphthalate	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Butylbenzylphthalate	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloro-3-methylphenol[4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloro-3-methylphenol[4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chloro-3-methylphenol[4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chloro-3-methylphenol[4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloroaniline[4-]	3.3	ug/L	U	N	SVOA	SW-846:8270C	3.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloroaniline[4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chloroaniline[4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chloroaniline[4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloronaphthalene[2-]	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloronaphthalene[2-]	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chloronaphthalene[2-]	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chloronaphthalene[2-]	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.376	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chlorophenol[2-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chlorophenol[2-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chlorophenol[2-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chlorophenol[2-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chlorophenyl-phenyl[4-] Ether	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chlorophenyl-phenyl[4-] Ether	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chlorophenyl-phenyl[4-] Ether	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chlorophenyl-phenyl[4-] Ether	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chrysene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chrysene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chrysene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chrysene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dibenz(a,h)anthracene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dibenz(a,h)anthracene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dibenz(a,h)anthracene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dibenz(a,h)anthracene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dibenzofuran	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dibenzofuran	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/20/09	Dibenzofuran	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dibenzofuran	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,2-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,2-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,2-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,2-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,2-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,2-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,2-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,2-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,3-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,3-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,3-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,3-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,3-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,3-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,3-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,3-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorobenzidine[3,3'-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzidine[3,3'-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichlorobenzidine[3,3'-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichlorobenzidine[3,3'-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	1.08	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorophenol[2,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorophenol[2,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichlorophenol[2,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichlorophenol[2,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Diethylphthalate	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Diethylphthalate	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Diethylphthalate	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Diethylphthalate	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dimethyl Phthalate	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dimethyl Phthalate	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dimethyl Phthalate	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dimethyl Phthalate	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dimethylphenol[2,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dimethylphenol[2,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dimethylphenol[2,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dimethylphenol[2,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Di-n-butylphthalate	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/10/10	Di-n-butylphthalate	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Di-n-butylphthalate	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Di-n-butylphthalate	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dinitro-2-methylphenol[4,6-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dinitro-2-methylphenol[4,6-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dinitro-2-methylphenol[4,6-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dinitro-2-methylphenol[4,6-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dinitrophenol[2,4-]	5	ug/L	U	N	SVOA	SW-846:8270C	5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dinitrophenol[2,4-]	20.4	ug/L	U	N	SVOA	SW-846:8270C	5.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dinitrophenol[2,4-]	20.8	ug/L	U	N	SVOA	SW-846:8270C	5.2	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dinitrophenol[2,4-]	21.5	ug/L	U	N	SVOA	SW-846:8270C	10.8	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dinitrotoluene[2,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dinitrotoluene[2,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dinitrotoluene[2,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dinitrotoluene[2,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dinitrotoluene[2,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dinitrotoluene[2,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dinitrotoluene[2,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dinitrotoluene[2,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dinitrotoluene[2,6-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dinitrotoluene[2,6-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dinitrotoluene[2,6-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dinitrotoluene[2,6-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dinitrotoluene[2,6-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dinitrotoluene[2,6-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dinitrotoluene[2,6-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dinitrotoluene[2,6-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Di-n-octylphthalate	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Di-n-octylphthalate	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Di-n-octylphthalate	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Di-n-octylphthalate	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dinoseb	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dinoseb	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dinoseb	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dinoseb	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dinoseb	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dinoseb	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dinoseb	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dinoseb	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dioxane[1,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dioxane[1,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dioxane[1,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dioxane[1,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dioxane[1,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dioxane[1,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dioxane[1,4-]	2.1	ug/L	J	Y	SVOA	SW-846:8270C	1.08	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dioxane[1,4-]	2.1	ug/L	J	Y	SVOA	SW-846:8270C	1.08	UF	GU081000OSRW01

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/15/12	Diphenylamine	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Diphenylamine	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Diphenylamine	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Diphenylamine	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Fluoranthene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Fluoranthene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Fluoranthene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Fluoranthene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Fluorene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Fluorene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Fluorene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Fluorene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Hexachlorobenzene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Hexachlorobenzene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Hexachlorobenzene	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Hexachlorobenzene	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Hexachlorobenzene	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Hexachlorobenzene	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Hexachlorobenzene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Hexachlorobenzene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Hexachlorobutadiene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Hexachlorobutadiene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Hexachlorobutadiene	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Hexachlorobutadiene	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Hexachlorobutadiene	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Hexachlorobutadiene	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Hexachlorobutadiene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Hexachlorobutadiene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Hexachlorocyclopentadiene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Hexachlorocyclopentadiene	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Hexachlorocyclopentadiene	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Hexachlorocyclopentadiene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Hexachloroethane	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Hexachloroethane	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Hexachloroethane	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Hexachloroethane	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Hexachloroethane	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Hexachloroethane	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Hexachloroethane	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Hexachloroethane	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Indeno(1,2,3-cd)pyrene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Indeno(1,2,3-cd)pyrene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Indeno(1,2,3-cd)pyrene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Indeno(1,2,3-cd)pyrene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Isophorone	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Isophorone	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Isophorone	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/20/08	Isophorone	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Methylnaphthalene[1-]	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methylnaphthalene[1-]	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Methylnaphthalene[1-]	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Methylnaphthalene[1-]	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.323	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Methylnaphthalene[2-]	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methylnaphthalene[2-]	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Methylnaphthalene[2-]	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Methylnaphthalene[2-]	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.323	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Methylphenol[2-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methylphenol[2-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Methylphenol[2-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Methylphenol[2-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Methylphenol[3-,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Methylphenol[4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methylphenol[4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Methylphenol[4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Naphthalene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Naphthalene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Naphthalene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Naphthalene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Naphthalene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Naphthalene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Naphthalene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.323	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Naphthalene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.323	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitroaniline[2-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitroaniline[2-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitroaniline[2-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitroaniline[2-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitroaniline[3-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitroaniline[3-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitroaniline[3-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitroaniline[3-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitroaniline[4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitroaniline[4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitroaniline[4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitroaniline[4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitrobenzene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Nitrobenzene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitrobenzene	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Nitrobenzene	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitrobenzene	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Nitrobenzene	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitrobenzene	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Nitrobenzene	10.8	ug/L	U	N	SVOA	SW-846:8270C	3.23	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitrophenol[2-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitrophenol[2-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/20/09	Nitrophenol[2-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitrophenol[2-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitrophenol[4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitrophenol[4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitrophenol[4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitrophenol[4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitrosodiethylamine[N-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitrosodiethylamine[N-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitrosodiethylamine[N-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitrosodiethylamine[N-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitrosodimethylamine[N-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitrosodimethylamine[N-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitrosodimethylamine[N-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitrosodimethylamine[N-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitroso-di-n-butylamine[N-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitroso-di-n-butylamine[N-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitroso-di-n-butylamine[N-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitroso-di-n-butylamine[N-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitroso-di-n-propylamine[N-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitroso-di-n-propylamine[N-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitroso-di-n-propylamine[N-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitroso-di-n-propylamine[N-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Nitrosopyrrolidine[N-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Nitrosopyrrolidine[N-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Nitrosopyrrolidine[N-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Nitrosopyrrolidine[N-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Oxybis(1-chloropropane)[2,2'-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Oxybis(1-chloropropane)[2,2'-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Oxybis(1-chloropropane)[2,2'-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Oxybis(1-chloropropane)[2,2'-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Pentachlorobenzene	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Pentachlorobenzene	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Pentachlorobenzene	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Pentachlorobenzene	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Pentachlorophenol	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Pentachlorophenol	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Pentachlorophenol	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Pentachlorophenol	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Phenanthrene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Phenanthrene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Phenanthrene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.21	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Phenanthrene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.215	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Phenol	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Phenol	10.2	ug/L	U	N	SVOA	SW-846:8270C	1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Phenol	10.4	ug/L	U	N	SVOA	SW-846:8270C	1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Phenol	10.8	ug/L	U	N	SVOA	SW-846:8270C	1.08	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Pyrene	0.3	ug/L	U	N	SVOA	SW-846:8270C	0.3	UF	SWWS46-12-22930

APPENDIX F Table 3. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Semi-Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/10/10	Pyrene	1.02	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Pyrene	1.04	ug/L	U	N	SVOA	SW-846:8270C	0.31	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Pyrene	1.08	ug/L	U	N	SVOA	SW-846:8270C	0.323	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Pyridine	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Pyridine	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Pyridine	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Pyridine	10.8	ug/L	U	N	SVOA	SW-846:8270C	1.08	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Tetrachlorobenzene[1,2,4,5]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Tetrachlorobenzene[1,2,4,5]	10.2	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Tetrachlorobenzene[1,2,4,5]	10.4	ug/L	U	N	SVOA	SW-846:8270C	3.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Tetrachlorobenzene[1,2,4,5]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Tetrachlorophenol[2,3,4,6-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Tetrachlorophenol[2,3,4,6-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Tetrachlorophenol[2,3,4,6-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Tetrachlorophenol[2,3,4,6-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Trichlorobenzene[1,2,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Trichlorobenzene[1,2,4-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,4-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,4-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,4-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Trichlorophenol[2,4,5-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichlorophenol[2,4,5-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichlorophenol[2,4,5-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichlorophenol[2,4,5-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	1.08	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Trichlorophenol[2,4,6-]	3	ug/L	U	N	SVOA	SW-846:8270C	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichlorophenol[2,4,6-]	10.2	ug/L	U	N	SVOA	SW-846:8270C	2	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichlorophenol[2,4,6-]	10.4	ug/L	U	N	SVOA	SW-846:8270C	2.1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichlorophenol[2,4,6-]	10.8	ug/L	U	N	SVOA	SW-846:8270C	2.15	UF	GU081000OSRW01

APPENDIX F Table 4. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Pesticides-Herbicides-PCBs, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 01A001	8/9/11	Aldrin	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1016	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1221	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1232	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1242	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1248	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1254	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1260	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Aroclor-1262	0.0366	ug/L	U	N	EPA:608	0.037	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	BHC[alpha-]	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	BHC[beta-]	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	BHC[delta-]	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	BHC[gamma-]	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chlordane[alpha-]	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chlordane[gamma-]	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	DDD[4,4'-]	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	DDE[4,4'-]	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	DDT[4,4'-]	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dieldrin	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Endosulfan I	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Endosulfan II	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Endosulfan Sulfate	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Endrin	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Endrin Aldehyde	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Endrin Ketone	0.0111	ug/L	U	N	SW-846:8081A	0.011	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Heptachlor	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Heptachlor Epoxide	0.00739	ug/L	U	N	SW-846:8081A	0.0074	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Methoxychlor[4,4'-]	0.0556	ug/L	U	N	SW-846:8081A	0.056	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Toxaphene (Technical Grade)	0.167	ug/L	U	N	SW-846:8081A	0.17	UF	NPDES001-11-13853
NPDES Outfall 03A027	1/19/12	Aldrin	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Aldrin	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1016	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1221	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1232	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1242	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1248	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1254	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Aroclor-1260	0.0343	ug/L	U	N	EPA:608	0.034	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	BHC[alpha-]	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	BHC[alpha-]	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	BHC[beta-]	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	BHC[beta-]	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	BHC[delta-]	1.2	ug/L		Y	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	BHC[delta-]	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	BHC[gamma-]	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	BHC[gamma-]	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855

APPENDIX F Table 4. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Pesticides-Herbicides-PCBs, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 03A027	1/19/12	Chlordane[alpha-]	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Chlordane[alpha-]	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Chlordane[gamma-]	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Chlordane[gamma-]	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	DDD[4,4'-]	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	DDD[4,4'-]	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	DDE[4,4'-]	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	DDE[4,4'-]	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	DDT[4,4'-]	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	DDT[4,4'-]	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Dieldrin	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Dieldrin	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Endosulfan I	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Endosulfan I	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Endosulfan II	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Endosulfan II	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Endosulfan Sulfate	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Endosulfan Sulfate	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Endrin	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Endrin	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Endrin Aldehyde	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Endrin Aldehyde	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Endrin Ketone	0.05	ug/L	U	N	SW-846:8081A	0.05	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Endrin Ketone	0.111	ug/L	U	N	SW-846:8081A	0.11	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Heptachlor	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Heptachlor	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Heptachlor Epoxide	0.0333	ug/L	U	N	SW-846:8081A	0.033	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Heptachlor Epoxide	0.0739	ug/L	U	N	SW-846:8081A	0.074	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Methoxychlor[4,4'-]	0.25	ug/L	U	N	SW-846:8081A	0.25	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Methoxychlor[4,4'-]	0.556	ug/L	U	N	SW-846:8081A	0.56	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	1/19/12	Toxaphene (Technical Grade)	0.75	ug/L	U	N	SW-846:8081A	0.75	UF	NPDES03A027-12-2122
NPDES Outfall 03A027	11/16/11	Toxaphene (Technical Grade)	1.67	ug/L	U	N	SW-846:8081A	1.7	UF	NPDES03A027-11-13855
SWS Facility Reuse Well	8/15/12	Aroclor-1016	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1016	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1016	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Aroclor-1221	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1221	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1221	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Aroclor-1232	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1232	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1232	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Aroclor-1242	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1242	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1242	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Aroclor-1248	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1248	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1248	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226

APPENDIX F Table 4. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Pesticides-Herbicides-PCBs, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/15/12	Aroclor-1254	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1254	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1254	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Aroclor-1260	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1260	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1260	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Aroclor-1262	0.0354	ug/L	U	N	SW-846:8082	0.0354	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Aroclor-1262	0.101	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Aroclor-1262	0.102	ug/L	U	N	SW-846:8082	0.034	UF	SWWS46-09-12226

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 01A001	8/9/11	Acrolein	1.25	ug/L	U	N	VOA	EPA:624	0.0013	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Acrylonitrile	1	ug/L	U	N	VOA	EPA:624	0.001	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Benzene	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bromodichloromethane	28.9	ug/L		Y	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bromoform	15.5	ug/L		Y	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Bromomethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Carbon Tetrachloride	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chlorobenzene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chlorodibromomethane	40	ug/L		Y	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chloroethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chloroethyl vinyl ether[2-]	1.5	ug/L	U	N	VOA	EPA:624	0.0015	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chloroform	15.7	ug/L		Y	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Chloromethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzene[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzene[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzene[1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzene[1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzene[1,4-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichlorobenzene[1,4-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloroethane[1,1-]	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloroethane[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloroethene[1,1-]	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloroethene[trans-1,2-]	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloropropane[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloropropene[cis-1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Dichloropropene[trans-1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Ethylbenzene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Methylene Chloride	3	ug/L	U	N	VOA	EPA:624	0.003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Tetrachloroethane[1,1,2,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Tetrachloroethene	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Toluene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Trichloroethane[1,1,1-]	0.325	ug/L	U	N	VOA	EPA:624	0.00033	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Trichloroethane[1,1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Trichloroethene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES001-11-13853
NPDES Outfall 01A001	8/9/11	Vinyl Chloride	0.5	ug/L	U	N	VOA	EPA:624	0.0005	UF	NPDES001-11-13853
NPDES Outfall 03A027	11/16/11	Acrolein	1.25	ug/L	U	N	VOA	EPA:624	0.0013	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Acrylonitrile	1	ug/L	U	N	VOA	EPA:624	0.001	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Benzene	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bromodichloromethane	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bromoform	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Bromomethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Carbon Tetrachloride	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chlorobenzene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chlorodibromomethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chloroethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chloroethyl vinyl ether[2-]	1.5	ug/L	U	N	VOA	EPA:624	0.0015	UF	NPDES03A027-11-13855

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
NPDES Outfall 03A027	11/16/11	Chloroform	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Chloromethane	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzene[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzene[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzene[1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzene[1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzene[1,4-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichlorobenzene[1,4-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloroethane[1,1-]	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloroethane[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloroethene[1,1-]	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloroethene[trans-1,2-]	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloropropane[1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloropropene[cis-1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Dichloropropene[trans-1,3-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Ethylbenzene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Methylene Chloride	3	ug/L	U	N	VOA	EPA:624	0.003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Tetrachloroethane[1,1,2,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Tetrachloroethene	0.3	ug/L	U	N	VOA	EPA:624	0.0003	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Toluene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Trichloroethane[1,1,1-]	0.325	ug/L	U	N	VOA	EPA:624	0.00033	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Trichloroethane[1,1,2-]	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Trichloroethene	0.25	ug/L	U	N	VOA	EPA:624	0.00025	UF	NPDES03A027-11-13855
NPDES Outfall 03A027	11/16/11	Vinyl Chloride	0.5	ug/L	U	N	VOA	EPA:624	0.0005	UF	NPDES03A027-11-13855
SWS Facility Reuse Well	8/15/12	Acetone	3	ug/L	U	N	VOA	SW-846:8260B	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Acetone	10	ug/L	U	N	VOA	SW-846:8260B	3.5	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Acetone	10	ug/L	U	N	VOA	SW-846:8260B	3.5	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Acetone	10	ug/L	U	N	VOA	SW-846:8260B	3.5	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Acetone	10	ug/L	U	N	VOA	SW-846:8260B	3.5	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Acetone	1.55	ug/L	J	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Acetone	1.54	ug/L	J	Y	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Acetonitrile	8	ug/L	U	N	VOA	SW-846:8260B	8	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Acetonitrile	25	ug/L	U	N	VOA	SW-846:8260B	6.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Acetonitrile	25	ug/L	U	N	VOA	SW-846:8260B	6.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Acetonitrile	25	ug/L	U	N	VOA	SW-846:8260B	6.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Acetonitrile	25	ug/L	U	N	VOA	SW-846:8260B	6.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Acetonitrile	25	ug/L	U	N	VOA	SW-846:8260B	6.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Acetonitrile	25	ug/L	U	N	VOA	SW-846:8260B	6.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Acrolein	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Acrolein	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Acrolein	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Acrolein	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Acrolein	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Acrolein	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Acrolein	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Acrylonitrile	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Acrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2076

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/10/10	Acrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Acrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Acrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Acrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Acrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Benzene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Benzene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Benzene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Benzene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Benzene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Benzene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Benzene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Bromobenzene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bromobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Bromobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Bromobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Bromobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Bromobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Bromobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Bromochloromethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bromochloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Bromochloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Bromochloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Bromochloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Bromochloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.36	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Bromochloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.36	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Bromodichloromethane	15.7	ug/L		Y	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bromodichloromethane	28	ug/L		N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Bromodichloromethane	29.3	ug/L		Y	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Bromodichloromethane	33.9	ug/L		Y	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Bromodichloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Bromodichloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Bromodichloromethane	31.4	ug/L		Y	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Bromoform	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bromoform	1.07	ug/L		Y	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Bromoform	1.08	ug/L		N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Bromoform	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Bromoform	2.16	ug/L		Y	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Bromoform	2.45	ug/L		Y	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Bromoform	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Bromomethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Bromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Bromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Bromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Bromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Bromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Bromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01-FTB

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/15/12	Butanol[1-]	15	ug/L	U	N	VOA	SW-846:8260B	15	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Butanol[1-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Butanol[1-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Butanol[1-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Butanol[1-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/15/12	Butanone[2-]	4.63	ug/L	J	Y	VOA	SW-846:8260B	2	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Butanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Butanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Butanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Butanone[2-]	3.28	ug/L	J	Y	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Butanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Butanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Butylbenzene[n-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Butylbenzene[n-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Butylbenzene[n-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Butylbenzene[n-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Butylbenzene[n-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Butylbenzene[n-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Butylbenzene[n-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Butylbenzene[sec-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Butylbenzene[sec-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Butylbenzene[sec-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Butylbenzene[sec-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Butylbenzene[sec-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Butylbenzene[sec-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Butylbenzene[sec-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Butylbenzene[tert-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Butylbenzene[tert-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Butylbenzene[tert-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Butylbenzene[tert-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Butylbenzene[tert-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Butylbenzene[tert-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Butylbenzene[tert-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Carbon Disulfide	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Carbon Disulfide	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Carbon Disulfide	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Carbon Disulfide	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Carbon Disulfide	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Carbon Disulfide	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Carbon Disulfide	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Carbon Tetrachloride	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Carbon Tetrachloride	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Carbon Tetrachloride	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Carbon Tetrachloride	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Carbon Tetrachloride	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Carbon Tetrachloride	1	ug/L	U	N	VOA	SW-846:8260B	0.26	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Carbon Tetrachloride	1	ug/L	U	N	VOA	SW-846:8260B	0.26	UF	GU081000OSRW01-FTB

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/15/12	Chloro-1,3-butadiene[2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Chloro-1,3-butadiene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloro-1-propene[3-]	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloro-1-propene[3-]	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Chloro-1-propene[3-]	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Chloro-1-propene[3-]	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Chloro-1-propene[3-]	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Chloro-1-propene[3-]	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Chloro-1-propene[3-]	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Chlorobenzene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chlorobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Chlorobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Chlorobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Chlorobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Chlorobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Chlorobenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chlorodibromomethane	5.52	ug/L		Y	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chlorodibromomethane	13.3	ug/L		Y	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Chlorodibromomethane	13.3	ug/L		N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chlorodibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Chlorodibromomethane	17.1	ug/L		Y	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Chlorodibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.26	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Chlorodibromomethane	19.7	ug/L		Y	VOA	SW-846:8260B	0.26	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloroethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloroethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Chloroethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Chloroethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Chloroethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Chloroethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Chloroethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloroform	27.7	ug/L		Y	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloroform	34.5	ug/L		Y	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Chloroform	32.5	ug/L		N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chloroform	32.1	ug/L		Y	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Chloroform	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Chloroform	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Chloroform	22	ug/L		Y	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chloromethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Chloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Chloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/20/08	Chloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Chloromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Chlorotoluene[2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chlorotoluene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Chlorotoluene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Chlorotoluene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Chlorotoluene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Chlorotoluene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Chlorotoluene[2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Chlorotoluene[4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Chlorotoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Chlorotoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Chlorotoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Chlorotoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Chlorotoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Chlorotoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dibromo-3-Chloropropane[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dibromo-3-Chloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dibromoethane[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dibromoethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dibromoethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dibromoethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dibromoethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dibromoethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dibromoethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dibromomethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dibromomethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Dichlorobenzene[1,4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichlorobenzene[1,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichlorodifluoromethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichlorodifluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichlorodifluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichlorodifluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichlorodifluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichlorodifluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichlorodifluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloroethane[1,1-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloroethane[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloroethane[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloroethane[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichloroethane[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichloroethane[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichloroethane[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dichloroethane[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/10/10	Dichloroethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloroethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloroethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichloroethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichloroethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichloroethane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloroethene[1,1-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloroethene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichloroethene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichloroethene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichloroethene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichloroethene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichloroethene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloroethene[cis-1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloroethene[cis-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichloroethene[cis-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichloroethene[cis-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichloroethene[cis-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichloroethene[cis-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichloroethene[cis-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dichloroethene[trans-1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloroethene[trans-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloroethene[trans-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloroethene[trans-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichloroethene[trans-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichloroethene[trans-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichloroethene[trans-1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloropropane[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichloropropane[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloropropane[1,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloropropane[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloropropane[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloropropane[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichloropropane[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichloropropane[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichloropropane[1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloropropane[2,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloropropane[2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloropropane[2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloropropane[2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichloropropane[2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichloropropane[2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/20/08	Dichloropropane[2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Dichloropropene[1,1-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloropropene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichloropropene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichloropropene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichloropropene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichloropropene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichloropropene[1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dichloropropene[cis-1,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloropropene[cis-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Dichloropropene[cis-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Dichloropropene[cis-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Dichloropropene[cis-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Dichloropropene[cis-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dichloropropene[cis-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Dichloropropene[trans-1,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Dichloropropene[trans-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Dichloropropene[trans-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Dichloropropene[trans-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Dichloropropene[trans-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dichloropropene[trans-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dichloropropene[trans-1,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Diethyl Ether	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Diethyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Diethyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Diethyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Diethyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Dioxane[1,4-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dioxane[1,4-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Dioxane[1,4-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Dioxane[1,4-]	50	ug/L	U	N	VOA	SW-846:8260B	15	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Ethyl Methacrylate	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Ethyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Ethyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Ethyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Ethyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Ethyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Ethyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Ethylbenzene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Ethylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Ethylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Ethylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Ethylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Ethylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Ethylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Hexachlorobutadiene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Hexachlorobutadiene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/10/10	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.44	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.44	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.44	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Hexachlorobutadiene	1	ug/L	U	N	VOA	SW-846:8260B	0.44	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Hexanone[2-]	2.2	ug/L	U	N	VOA	SW-846:8260B	2.2	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Hexanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Hexanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Hexanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Hexanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Hexanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Hexanone[2-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Iodomethane	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Iodomethane	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Iodomethane	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Iodomethane	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Iodomethane	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Iodomethane	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Iodomethane	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Isobutyl alcohol	15	ug/L	U	N	VOA	SW-846:8260B	15	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Isobutyl alcohol	50	ug/L	U	N	VOA	SW-846:8260B	13	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Isobutyl alcohol	50	ug/L	U	N	VOA	SW-846:8260B	13	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Isobutyl alcohol	50	ug/L	U	N	VOA	SW-846:8260B	13	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Isobutyl alcohol	50	ug/L	U	N	VOA	SW-846:8260B	13	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Isobutyl alcohol	50	ug/L	U	N	VOA	SW-846:8260B	12.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Isobutyl alcohol	50	ug/L	U	N	VOA	SW-846:8260B	12.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Isopropylbenzene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Isopropylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Isopropylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Isopropylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Isopropylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Isopropylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Isopropylbenzene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Isopropyltoluene[4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Isopropyltoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Isopropyltoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Isopropyltoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Isopropyltoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Isopropyltoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Isopropyltoluene[4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/15/12	Methacrylonitrile	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methacrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Methacrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Methacrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Methacrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Methacrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Methacrylonitrile	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Methyl Methacrylate	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Methyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Methyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Methyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Methyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Methyl Methacrylate	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Methyl tert-Butyl Ether	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methyl tert-Butyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Methyl tert-Butyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Methyl tert-Butyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Methyl tert-Butyl Ether	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/15/12	Methyl-2-pentanone[4-]	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Methyl-2-pentanone[4-]	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Methyl-2-pentanone[4-]	5	ug/L	U	N	VOA	SW-846:8260B	1.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Methylene Chloride	3	ug/L	U	N	VOA	SW-846:8260B	3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Methylene Chloride	10	ug/L	U	N	VOA	SW-846:8260B	3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Methylene Chloride	10	ug/L	U	N	VOA	SW-846:8260B	3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Methylene Chloride	10	ug/L	U	N	VOA	SW-846:8260B	3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Methylene Chloride	10	ug/L	U	N	VOA	SW-846:8260B	3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Methylene Chloride	5	ug/L	U	N	VOA	SW-846:8260B	2	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Methylene Chloride	2.14	ug/L	J	Y	VOA	SW-846:8260B	2	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Naphthalene	0.4	ug/L	U	N	VOA	SW-846:8260B	0.4	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Naphthalene	0.4	ug/L	U	N	VOA	SW-846:8260B	0.4	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/20/09	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Naphthalene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Propionitrile	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Propionitrile	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Propionitrile	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Propionitrile	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Propionitrile	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Propionitrile	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Propionitrile	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Propylbenzene[1-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Propylbenzene[1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Propylbenzene[1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Propylbenzene[1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Propylbenzene[1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Propylbenzene[1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Propylbenzene[1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Styrene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Styrene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Styrene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Styrene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Styrene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Styrene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Styrene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Tetrachloroethane[1,1,1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Tetrachloroethane[1,1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Tetrachloroethane[1,1,2,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Tetrachloroethane[1,1,2,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Tetrachloroethene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Tetrachloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Tetrachloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Tetrachloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Tetrachloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/20/08	Tetrachloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.45	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Tetrachloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.45	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Toluene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Toluene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Toluene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Toluene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Toluene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Toluene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Toluene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	ug/L	U	N	VOA	SW-846:8260B	1	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trichlorobenzene[1,2,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.332	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.332	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trichlorobenzene[1,2,4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	8/15/12	Trichlorobenzene[1,2,4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Trichlorobenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trichloroethane[1,1,1-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichloroethane[1,1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Trichloroethane[1,1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Trichloroethane[1,1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichloroethane[1,1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.33	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichloroethane[1,1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.325	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Trichloroethane[1,1,1-]	1	ug/L	U	N	VOA	SW-846:8260B	0.325	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Trichloroethane[1,1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichloroethane[1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trichloroethane[1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	8/20/09	Trichloroethane[1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Trichloroethane[1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Trichloroethane[1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Trichloroethane[1,1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Trichloroethene	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Trichloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Trichloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichloroethene	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trichlorofluoromethane	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichlorofluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trichlorofluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichlorofluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trichlorofluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trichlorofluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.31	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trichlorofluoromethane	1	ug/L	U	N	VOA	SW-846:8260B	0.31	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trichloropropane[1,2,3-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trichloropropane[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trichloropropane[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trichloropropane[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Trichloropropane[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Trichloropropane[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Trichloropropane[1,2,3-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	GU081000OSRW01
SWS Facility Reuse Well	8/15/12	Trimethylbenzene[1,2,4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trimethylbenzene[1,2,4-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Trimethylbenzene[1,3,5-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Trimethylbenzene[1,3,5-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Vinyl acetate	1.5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Vinyl acetate	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Vinyl acetate	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Vinyl acetate	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Vinyl acetate	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Vinyl acetate	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Vinyl acetate	5	ug/L	U	N	VOA	SW-846:8260B	1.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Vinyl Chloride	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930

APPENDIX F Table 5. Effluent Quality Data, SWWS Plant Reuse Wet Well, NPDES Outfalls 001 and 03A027, Volatile Organic Compounds, 2008-2012.

Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detect Flag	Analysis Suite Code	Analytical Method	Lab MDL	Field Prep Code	Field Sample ID
SWS Facility Reuse Well	11/10/10	Vinyl Chloride	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Vinyl Chloride	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Vinyl Chloride	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Vinyl Chloride	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Vinyl Chloride	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Vinyl Chloride	1	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Xylene[1,2-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Xylene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2076
SWS Facility Reuse Well	11/10/10	Xylene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-11-2074
SWS Facility Reuse Well	8/20/09	Xylene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12226
SWS Facility Reuse Well	8/20/09	Xylene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-09-12307
SWS Facility Reuse Well	11/20/08	Xylene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01
SWS Facility Reuse Well	11/20/08	Xylene[1,2-]	1	ug/L	U	N	VOA	SW-846:8260B	0.25	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	8/15/12	Xylene[1,3-]+Xylene[1,4-]	0.3	ug/L	U	N	VOA	SW-846:8260B	0.3	UF	SWWS46-12-22930
SWS Facility Reuse Well	11/10/10	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-11-2074
SWS Facility Reuse Well	11/10/10	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-11-2076
SWS Facility Reuse Well	8/20/09	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-09-12307
SWS Facility Reuse Well	8/20/09	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	VOA	SW-846:8260B	0.5	UF	SWWS46-09-12226
SWS Facility Reuse Well	11/20/08	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	VOA	SW-846:8260B	0.43	UF	GU081000OSRW01-FTB
SWS Facility Reuse Well	11/20/08	Xylene[1,3-]+Xylene[1,4-]	2	ug/L	U	N	VOA	SW-846:8260B	0.43	UF	GU081000OSRW01