

## Alternative Water Solutions Program 2014 Annual Report

### North Pole, Alaska

Prepared for Flint Hills Resources Alaska, LLC

February 25, 2015

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#### Alternative Water Solutions Program 2014 Annual Report

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### Contents

1.0	Intro	duction		1
	1.1	Curren	Extent of Sulfolane Plume	1
		1.1.1	Buffer Zone	1
	1.2	Annual	Newsletter	2
	1.3	Annual	Report Organization	2
2.0	AWS	Program	n Data Summary	3
	2.1	AWS Pr	operty Information	3
	2.2	Private	Well Water Data Summary	3
	2.3	POE Sy	stem Performance	4
		2.3.1	Treatment System Performance	5
		2.3.2	Volume of Water Treated	5
		2.3.3	GAC Usage	5
	2.4	Bottled	and Bulk Water Supply Information	5
		2.4.1	Bottled Water	5
		2.4.2	Bulk Water Tanks	5
		2.4.3	Garden Tanks	7
	2.5	Comme	ercial Greenhouse Locations	7
	2.6	City of	North Pole Water Supply	7
3.0	AWS	Program	n Updates	3
	3.1	Descrip	tion of Issues, Problems or Complaints	3
	3.2	AWS Pi	ogram Changes	3
4.0	Sumi	mary		Э
5.0	Refe	rences		0

#### List of Tables

- Table 1AWS Installation Summary
- Table 22014 Property Transactions
- Table 3
   POE Treatment Systems Analytical Data Summary
- Table 4POE Treatment Systems Water Usage Summary

#### List of Figures

- Figure 1 2014 Sulfolane Plume and Monitoring Results
- Figure 2 2015 Buffer Zone and Resampling Area
- Figure 3 Potable Water Solutions Provided by Flint Hills Resources

#### List of Attachments

Attachment A 2014 Newsletters to Homeowners

### List of Abbreviations and Acronyms

ADEC	Alaska Department of Environmental Conservation
AHL	Arctic Home Living
ARCADIS	ARCADIS, US, Inc.
AWS	alternative water solutions
AWS-MP	Alternative Water Solutions Program-Management Plan
Barr	Barr Engineering Company
COC	contaminants of concern
FHRA	Flint Hills Resources Alaska, LLC
FS	feasibility study
GAC	granular activated carbon
IRMs	interim remediation measures
NPR	North Pole Refinery
POE	Point-of-Entry
PWS	public water system
PW-ID	private well identification number
QA	quality assurance
QC	quality control
SWI	Shannon & Wilson, Inc.
The City	The City of North Pole, Alaska
WQA	Water Quality Association

### 1.0 Introduction

On behalf of Flint Hills Resources Alaska, LLC (FHRA), Barr Engineering Co. (Barr) prepared this Alternative Water Solutions Program – 2014 Annual Report (annual report). This annual report has been prepared in accordance with the Alternative Water Solutions Program-Management Plan (AWS-MP, Barr 2014), to document identification, installation, and maintenance of alternative water solutions (AWS) in the North Pole area in 2014.

Previous investigations conducted by FHRA have determined that a plume of dissolved-phase sulfolane exists in the groundwater downgradient of the North Pole Refinery (NPR) in North Pole, Alaska. Working closely with ADEC, FHRA has initiated a comprehensive response plan which includes delineation of the extent of the sulfolane plume and implementation of onsite remediation measures. In addition to this response, FHRA has continued its commitment to the community in 2014 to providing these AWS to the affected and potentially affected community while ADEC reviews scientific information to determine a safe sulfolane drinking water cleanup level. These AWS options include long-term delivery of bottled water, bulk water tank systems, and Point-of-Entry (POE) in-home water treatment systems.

The data, analyses, and conclusions in this report are part of a collaborative effort among FHRA's consulting team members. The team that provided assistance related to the AWS program includes qualified professionals from Shannon & Wilson, Inc. (SWI), ARCADIS U.S., Inc. (ARCADIS), and Barr. FHRA has engaged these consulting firms to perform various tasks on the project. This report, therefore, encompasses contributions from professionals from each firm in the text, tables, and figures presented.

#### 1.1 Current Extent of Sulfolane Plume

FHRA has installed a total of 159 active offsite monitoring wells to characterize the nature and extent of sulfolane impacts and permafrost depths offsite. The total numbers of wells reported above is different than in previous reports as monitoring wells in the MW-148 well nest are now being accounted as onsite wells. Since November 2009, groundwater samples have been collected from 852 private wells (667 inside search limits and 185 outside search limits) and analyzed for sulfolane. The approximate extent of dissolved sulfolane in offsite monitoring wells and private wells is shown on Figure 1.

#### 1.1.1 Buffer Zone

As described in the AWS-MP (Barr 2014), a Buffer Zone of properties with private wells has been established around the perimeter of the sulfolane plume. These properties have not had detections in their wells, but are located adjacent to or near properties with sulfolane detections. Due to their proximity to properties with sulfolane detections, the properties located within the designated Buffer Zone are provided interim bottled water and their wells are sampled annually. The Buffer Zone properties as determined for 2015 are shown on Figure 2. In addition to the Buffer Zone properties, Figure 2 also includes the 2015 planned annual resampling locations. FHRA has elected in 2015 to expand resampling to include several residences that are outside of the designated Buffer Zone. The AWS-MP (Barr 2014) describes search areas which are also included on Figure 2.

Locations with first detections of sulfolane in drinking water wells in 2014 are shown on Figure 2. These locations were either 1) offered interim bottled water, 2) were already on interim bottled water, or 3) a long-term AWS was selected as shown on Figure 3. One location remains vacant at this time.

There are several locations without detectable sulfolane that are within the plume and Buffer Zone areas but do not receive interim bottled water (see Figure 2). These locations are part of the annual resampling and FHRA has provided or offered bottled water to all these locations. The reasons for not receiving interim bottled water at present include the following: the residence is vacant (seasonally in some cases), the well is no longer active, the property owner has refused, the well is not used as a drinking-water source, or the property owner is providing their own water.

#### 1.2 Annual Newsletter

The AWS-MP (Barr 2014) specifies that an annual direct communication newsletter is to be distributed during the first quarter of each year to affected property owners with an AWS, and property owners within the Buffer Zone. FHRA distributed three newsletters in the first quarter of 2014 and they are provided as Attachment A. FHRA also gave a presentation to the Greater Fairbanks Board of Realtors in February 2014 as another means to ensure that potential property owners in the area have been advised of the AWS program.

#### 1.3 Annual Report Organization

This plan includes the following sections:

- Section 1 Introduction: Provides an overview and background of the report including introduction of the current extent of the sulfolane plume and the Buffer Zone.
- Section 2 AWS Program Data Summary: Provides a summary of the locations with an AWS, the
  results of monitoring at each well, and the source and delivery schedules for selected AWS. Also
  includes water usage at a greenhouse with an AWS and monitoring data for the City of North
  Pole.
- Section 3 AWS Program Updates: Provides a summary of the issues that occurred within the year and FHRA's mitigation activities. Also includes proposed changes for 2015.
- Section 4 Summary: Provides a conclusion for the AWS program in 2014.
- Section 5 References.

### 2.0 AWS Program Data Summary

#### 2.1 AWS Property Information

Through 2014, FHRA has provided 343 long-term AWS at 320 properties as shown in Table 1 (note that some properties have more than one AWS). New AWS installed in 2014 include 5 POE treatment systems, 4 bulk water tanks, and 1 long-term bottled water option. A map showing AWS installed to date, as listed below, is included on Figure 3.

- 165 POE treatment systems
- 117 bulk water tanks
- 33 long-term bottled water options

In 2010, 28 residences were connected to City water (Table 1).

In addition to the long-term solutions provided above, FHRA is currently providing interim bottled water to 236 addresses (some addresses have multiple residences) that are either affected properties inside the plume that have not selected a long-term AWS, properties that have not had a detection of sulfolane, or properties that are located within or near the Buffer Zone of the plume. FHRA has also provided 50 garden tanks to affected properties that do not have a City water connection.

As described in the AWS-MP (Barr 2014), currently FHRA conducts a series of tasks on a routine basis to identify new construction or property transactions within the plume or Buffer Zone area. Table 2 provides a summary of property transactions that were noted by FHRA in 2014.

#### 2.2 Private Well Water Data Summary

In 2014, FHRA completed monitoring of private wells through the following programs:

- Annual sampling of private wells within the Buffer Zone and resampling program;
- Initial sampling of private wells inside and outside the sulfolane plume that have never been sampled;
- Quarterly sampling of private wells that are part of the Deep Residential Well monitoring program;
- POE treatment system sampling during scheduled granular activated carbon (GAC) changeouts; and
- Focused sampling such as extended search areas or call-in requests from homeowners.

Results and/or laboratory reports for this monitoring were provided to ADEC in the routine quarterly groundwater monitoring reports.

As noted above, FHRA completes monitoring of private wells with POE systems during each GAC changeout. Table 3 provides a summary of monitoring results for sulfolane in private wells with POE systems. A summary map of private well locations was provided as Appendix B of the Fourth Quarter 2014 Offsite Groundwater Monitoring Reporting (ARCADIS, 2015). Included in Table 3 are results for raw water (Port A) and treated water (Port C or Port D), and commercial locations have been noted. Analytical laboratory reports and ADEC quality assurance/quality control (QA/QC) checklists for 2014 have been previously provided to ADEC in the quarterly groundwater monitoring reports submitted by FHRA, and are not duplicated in this report. Below are points of clarification for the results presented in Table 3:

- In some instances a raw water sample was collected without a treated water sample on the same date. These instances are related to collection of a raw water sample for a different purpose, such as the deep residential well monitoring program, outside of the POE system maintenance.
- High-frequency sampling was completed at select locations (PW-IDs 0157, 0225, 0232, 0657, 1098) in 2010 and 2011 as part of POE in-home pilot testing. These results have been submitted in previous reports including Appendix B of the AWS-MP (Barr 2014) and are not repeated in this report.
- In POE system monitoring results prior to 2012, FHRA was in development of the sampling protocol and sampled either Port C or Port D to confirm removal of sulfolane. Port C is located after the primary GAC vessel(s) and Port D is located after the redundant GAC vessel.
- In some locations (e.g., PW-IDs 0511, 1155, 1395) one raw water sample result is shown during each monitoring event, but multiple treated water results are shown (i.e. 1-C, 2-C, 3-C, 1-D, 2-D, and 3-D). This is due to the presence of multiple POE treatment systems, so the treated water is sampled at Port C and Port D of each system.

As further described in Section 3.2, in 2014 FHRA began collection of additional samples during each GAC vessel changeout that are referred to as C1, C2, D1, and D2. C1 and D1 samples are collected from sample ports C (primary vessel effluent) and D (treatment system effluent), respectively, prior to system maintenance activities. C2 and D2 samples are also collected from sample ports C and D, respectively, following system maintenance activities. D2 samples are only analyzed in the event of a C2 sample sulfolane detection. Samples marked as "D" will continue to be collected; D samples represent effluent conditions prior to a maintenance event where the redundant tank is not replaced.

This annual report includes data received approximately two weeks prior to the end of the fourth quarter 2014 (through December 15, 2014). The purpose of this data cut-off date is to allow appropriate time for data review and validation prior to submittal of results and laboratory data packets with the quarterly groundwater monitoring reports. This same data cut-off is used for this annual report to maintain consistency with data already submitted to ADEC.

#### 2.3 POE System Performance

FHRA has installed POE treatment systems which use sediment filters, a softener, UV filter, and GAC vessels to remove sulfolane. The POE treatment systems also include a water meter that transmits a

remote signal to allow tracking of the water usage to schedule routine maintenance, and a series of sampling ports that will allow sampling of the raw water and treated water during service visits. Arctic Home Living (AHL) of Fairbanks has been contracted by FHRA to provide maintenance of the POE treatment systems.

As noted in Section 2.2, data included within this report were received from the laboratory prior to December 15, 2014. However, FHRA is noting that after December 15, 2014, but prior to submittal of this report, results were received for two locations that had detectable concentrations of sulfolane in samples collected from sample port D, as described in the following section.

#### 2.3.1 Treatment System Performance

As shown in Table 3, the sulfolane results in the treated water samples have been below detection limits during each monitoring event in each POE system through December 15, 2014. These data verify that the POE systems are properly treating the groundwater and performing as designed. The data also confirm that proper operation and maintenance of the systems are being performed. As noted above, two sulfolane detections in treated water samples were received prior to submittal of this report. In each case, as described below, the concentrations reported were low-level and quickly mitigated.

The first sulfolane detection was reported in the D port sample collected from PW-0162 on 12/8/2014 (4.4 J µg/L). Upon receipt of the results FHRA immediately conducted interviews with the tenants and determined that the system was exhausted prior to regularly scheduled maintenance due to an unreported water leak that had previously occurred within the house, which resulted in excessive water usage and throughput through the GAC system. The primary GAC tank had been replaced during the planned maintenance activities on 12/8/2014. Upon receiving the results, the redundant GAC vessel was immediately replaced on 12/19/2014. Follow up samples from port D did not have detectable concentrations of sulfolane and these results will be included in the 2015 annual report. Note that the leak in the home was related to a non-POE system water pipe, and the leak was repaired by the homeowner.

The second noted detection occurred at 3.2 J  $\mu$ g/L in the D2 sample (collected immediately after GAC vessel changeout, as noted above) from PW-0648 on 12/09/2014. Upon evaluation it appears the detection was due to limited carbon-settling time and bedding of the vessel for the recently installed tanks. Follow up samples from port D did not have detectable concentrations of sulfolane. These results will be included in the 2015 annual report.

#### 2.3.2 Volume of Water Treated

Water usage monitoring was performed on a monthly basis at each POE system in 2014 to confirm water usage rates and to determine the GAC replacement schedule. This monitoring is completed via remote reading of a flow totalizer unit by AHL personnel. Water usage rates were calculated and compared to the treatment volumes included in the Water Quality Association (WQA) certification, as described in the AWS-MP (Barr 2014), and used to schedule GAC vessel replacements. Water usage in 2014 for each POE system is summarized in Table 4, and totals to approximately 7,800,000 gallons for 2014.

Through 2014, the POE systems have treated approximately 23,000,000 gallons of water.

#### 2.3.3 GAC Usage

As noted in Section 2.3.1, scheduling of GAC changeout is determined by the water usage rate and raw water sulfolane concentration in accordance with the WQA certification. In 2014, changeout was completed for 514 carbon vessels. Each vessel contains 2.5 cubic feet of GAC, for a total changeout of 1,285 cubic feet of GAC in 2014.

#### 2.4 Bottled and Bulk Water Supply Information

As described in Section 2.1, FHRA currently provides bottled or bulk water for residents who have selected these options as their AWS or are on interim bottled water. Additionally, water is provided to residences with a garden tank. The following sections provide a summary of the source and delivery schedule for the bottled and bulk water supplies.

#### 2.4.1 Bottled Water

In 2014, bottled water delivery was provided on a weekly basis by Spring Alaska. Spring Alaska receives the water from Twin Springs Water (Alaska Public Water System (PWS) ID # AK312813).

Spring Alaska contacts residents weekly to confirm the number of bottles required in advance of delivery. This allows residents receiving this service to manage delivery to their individual needs from week to week. In 2014, 105,675 gallons of water were delivered to these locations. This water volume is estimated based on water delivery invoiced in 2014. Currently, residents of 33 properties have selected long-term bottled water as their long-term AWS. FHRA is also currently providing interim bottled water to 236 residences that are either affected properties inside the plume that have not selected a long-term AWS or have not had a detection of sulfolane, or are located within or near the Buffer Zone of the plume.

#### 2.4.2 Bulk Water Tanks

In 2014, water deliveries for bulk tanks were completed by two local suppliers who are permitted by the State of Alaska; Pioneer Wells Inc. (Pioneer Wells) and H20 2 U, LLC (Water Wagon). Pioneer Wells sources their water from either a well in Fairbanks and treats the water in a water softener system prior to delivery to affected residents (PWS ID #AK2310714), or an untreated well (upon request from homeowners) located at Fox Spring (PWS ID #AK2312156). Water Wagon sources treated water from College Utilities in Fairbanks (PWS ID #AK2310900). Homeowners have the option of receiving water from Pioneer Wells or Water Wagon, depending upon their preference. There are currently 117 bulk water tanks installed, and FHRA provided a total of 3,319,741 gallons to these locations in 2014. Water volumes provided are estimated based on water deliveries invoiced in 2014.

The delivery schedule for commercial properties in 2014 was weekly depending upon usage. For residential properties, the delivery schedule was weekly or twice-monthly depending upon usage.

#### 2.4.3 Garden Tanks

For residents that have selected to have a garden tank installed, FHRA has provided up to 2,000 gallons per season. In 2014, the water was supplied by Pioneer Wells, with water sourced from an untreated well located at Fox Spring (PWS ID# AK2312156), untreated well located in Fairbanks (PWS ID# AZ310714), or treated water from Fairbanks (PWS ID# AK2110714). There are currently 50 garden tanks installed, and FHRA provided a total of 27,607 gallons to these locations in 2014.

#### 2.5 Commercial Greenhouse Locations

There is currently one commercial greenhouse located within the impacted area; Hawks Greenhouse at 2260 Old Richardson Highway. FHRA has installed four bulk water tanks at this location with a total storage capacity of 10,000 gallons. The bulk water tanks are filled by Pioneer Wells, with water sourced from an untreated well located at Fox Spring (PWS ID# AK2312156). In 2014, the bulk water supplier, contracted by FHRA, provided a total of 93,165 gallons to this location. The delivery schedule was two or three times per week, dependent upon water usage, from April through August.

#### 2.6 City of North Pole Water Supply

The City of North Pole samples its water supply wells routinely and analyzes for sulfolane on a semiannual basis (PWS ID# AK2310675). The City is responsible for submittal of the results to ADEC.

Water quality for the City of North Pole wells can be obtained through the ADEC website (http://dec.alaska.gov:8080/DWW/JSP/WaterSystemDetail.jsp?tinwsys is number=3699&tinwsys st code= AK&wsnumber=AK2310675); however, FHRA is not aware of the results as the website does not currently provide the source water sulfolane results.

### 3.0 AWS Program Updates

#### 3.1 Description of Issues, Problems or Complaints

FHRA has asked affected residents to contact the FHRA Groundwater Office if they have any problems or concerns with their chosen AWS. In 2014 very few complaints were made. A few complaints were received from individuals not receiving all the bottled water they requested. This was due to those individuals not returning all their empty bottles; issues have been resolved with personal contacts between the homeowners and the water delivery company.

In February 2014, one report of copper staining was reported and resolved by replacing the accessible copper pipe at the residence, after which there were no further complaints.

FHRA also learned some residents shut off power to their POE systems during high ground water events in the summer so that backwash would not add water to flooded septic systems. Upon learning this information, FHRA instructed AHL to contact the property owners, schedule and perform system wellness checks, and restart the systems. During that time, a few property owners commented to AHL about an odor issue, but did not contact FHR; no additional comments have been received regarding odor.

One bulk water customer was concerned about cloudy conditions in their tap water. Upon receiving notice of this issue, bottled water was provided by FHRA. To investigate, samples for visual observation were collected of the delivered water from Pioneer, the bulk tank water at the outlet of the domestic water pump, and at the tap. While the delivered water and the water in the bulk tank (collected at the pump) were clear, the tap water was perceived to be slightly cloudy. After review of the samples, the homeowner agreed that there was no information to indicate the water was not safe to use. Bottle service was discontinued and no complaints regarding that issue have been reported since then.

#### 3.2 AWS Program Changes

FHRA evaluated the sampling program in 2014 for potential data gaps. The sampling program was modified on November 12, 2014 to provide additional assurances that the POE systems are operating as designed immediately before and after GAC vessel changeouts. The samples added include C1 and D1 samples, which are collected from sample ports C and D, respectively, prior to system maintenance activities. Collection of C2 and D2 samples was also added following changeout of a GAC vessel. The D2 samples are only collected following a redundant tank change out and analyzed if there is detection of sulfolane in the C2 sample. Samples reported as D will continue to be collected; D samples represent effluent conditions prior to a maintenance event where the redundant tank is not replaced.

### 4.0 Summary

In 2014, FHRA provided sulfolane-free drinking water to impacted residents and businesses of North Pole through delivery of bottled water (on an interim or long-term basis), delivery of bulk water, and operation of POE treatment systems. The following is a summary of the total volumes of clean water provided by alternative water solutions in 2014:

- 105,675 gallons of bottled water through delivery of bottled water on an interim or long-term basis.
- 3,440,513 gallons of bulk water, including delivery to residences, businesses, a greenhouse, and garden tanks.
- Treatment of approximately 7,800,000 gallons of water through POE treatment systems, with all sampling results reported through December 15, 2014, confirming non-detectable sulfolane concentrations in all treated water samples. Since initial installation, the POE treatment systems have treated approximately 23,000,000 gallons of water with non-detectable sulfolane concentrations in all treated water sampling results reported through December 15, 2014.

### 5.0 References

Alaska Department of Environmental Conservation. 2015. Division of Environmental Health, Drinking Water Program.

http://dec.alaska.gov:8080/DWW/JSP/WaterSystemDetail.jsp?tinwsys is number=3699&tinwsys st co de=AK&wsnumber=AK2310675

- ARCADIS, 2015. Fourth Quarter 2014 Offsite Groundwater Monitoring Report, North Pole Refinery, Flint Hills Resources Alaska, LLC, January 2015.
- Barr Engineering Company, 2014. Alternative Water Solutions Program Management Plan, Flint Hills Resources Alaska, LLC, October 2014.

### Tables

# Table 1AWS Installation SummaryAlternative Water Solutions Program - 2014 Annual ReportNorth Pole, Alaska

		Numbe	er of Solu	utions pe	er Installa	ation Year
	2010	2011	2012	2013	2014	Totals (through 2014)
Bulk Water	7	78	18	10	4	117
Long-Term Bottled Water		24	5	3	1	33
POE Treatment System		126	28	6	5	165
Total AWS						315
Connection to City Water	28					28
Grand Total						343

#### Table 2 2014 Property Transactions Flint Hills Resources Alaska, LLC North Pole, Alaska

	Private Well Identification
	Number (PW ID #)
1	466
2	542
3	543
4	546
5	561
6	637
7	701
8	725
9	734
10	735
11	745
12	746
13	748
14	768
15	769
16	795
17	801
18	853
19	856
20	938
21	948
22	1156
23	1157
24	1162
25	1172
26	1206
27	1232

	Sample Port		4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfo	lane (µg/l	)									
	11/17/2014	37.1			<2.40	<2.40	<2.40	<2.40		1		1						1	1	1	1	
	08/18/2014	44.0	47.8		<2.40	<2.40		<2.40								1						
	05/23/2014	52.9			<2.00	<2.00		<2.00			1					1			1	1	1	
	03/03/2014	53.3	54.1		<3.00	<3.00		<3.00J*		1										1	1	
	11/26/2013	53.6			<3.10	<3.10		<3.10			1					1	1		1			
	08/30/2013	68.9J*			<3.10J*	<3.10J*		<3.10J*		1	1					1				1	1	
0157	04/05/2013	78.5J*			<3.10J*			<3.10J*			1											
	12/19/2012	103JH*				<3.10J*		<3.10J*		1										1	1	
	07/02/2012	110JL*			<3.10J*			<3.10J*														
	01/25/2012	114J*				<3.10J*		<3.10J*														
	12/12/2011	115J*				<3.10J*		<3.10J*														
	08/17/2011	129J*		3.40J*																		
	01/04/2010	95.4	90.6																1			
	11/14/2014	52.6			<2.40	<2.40		<2.40														
	10/06/2014				<2.40	<2.40				1										1	1	
	09/15/2014	51.0			<2.40	3.10J	-	<2.40														
0158	07/30/2013	94.2J*			<3.10J*	<3.10J*		<3.10J*		1	1	1						1	1			
	12/09/2011	202J*			<3.10J*			<3.10J*											1			
	07/28/2011	213J*		<3.10J*																		
	01/20/2010	217														1						
	09/30/2014	43.7	44.9		<2.40	<2.40		<2.40		1		1										
	08/26/2014	50.7	50.7		<2.40	<2.40		<2.40		1						1						
	06/02/2014	71.3	69.7		<2.00	<2.00		<2.00		1		1				1		1	1			
	03/14/2014	65.3			<3.00	<3.00		<3.00		1												
	01/17/2014	81.3	74.8		<3.00	<3.00		<3.00		1	1					1		1	1	1	1	
	11/19/2013	71.6	66.2		<3.10	<3.10		<3.10														
	09/27/2013	70.0	71.6		<3.10	<3.10		<3.10		1	1								1	1	ĺ	
	08/20/2013	77.5J*			<3.10J*	<3.10J*		<3.10J*														
0450	05/28/2013	96.1J*			<3.10J*	<3.10J*		<3.10J*		1										[	[	
0159	03/12/2013	119J*			<3.10J*	<3.10J*		<3.10J*		1										1	1	
	12/18/2012	124JH*			<3.10J*	<3.10J*		<3.10J*														
	10/22/2012	115J*			<3.10J*	<3.10J*		<3.10J*														
	08/06/2012	141J*			<3.10J*	<3.10J*		<3.10J*														
	06/11/2012			<3.10				<3.10														
	05/25/2012	152J*			<3.10J*	26.4J*		<3.10J*														
	02/03/2012	167J*			<3.10J*			<3.10J*														
	07/27/2011	233J*		<3.10J*																		
	01/09/2010	255																				
	07/01/2014	157			<2.40	<2.40		<2.40			1											
	02/03/2014	164			<3.00	<3.00		<3.00												[	[	
0160	04/12/2013	255J*			<3.10J*			<3.10J*														
0100	01/25/2012	360J*			<3.10J*	<3.10J*		<3.10J*		1												
	08/17/2011	326J*		<3.10J*								1						1	1	[	[	
	03/12/2011	21.2								1						1			1		1	

	Sample Port	ŀ	4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfo	ane (µg/l)										
	11/04/2014	80.3	[		<2.40	<2.40		<2.40		[									1			
	08/29/2014	84.9	88.1		<2.40	<2.40		<2.40				1										
	05/30/2014	118	115		<2.00	<2.00		<2.00														
	02/17/2014	129			<3.00	<3.00		<3.00														
	11/22/2013	106	110		<3.10	<3.10		<3.10														
	09/13/2013	110			<3.10	<3.10		<3.10														
	06/14/2013	159J*			<3.10J*			<3.10J*														
0161	03/29/2013	191J*			<3.10J*			<3.10J*														
	01/08/2013	155J*			<3.10J*			<3.10J*														
	10/16/2012	186J*				<3.10J*		<3.10J*														
	06/28/2012	223J*				<3.10J*		<3.10J*														
	03/15/2012	236J*			<3.10J*			<3.10J*														
	11/02/2011	190J*		<3.10J*	40.100	101100		<3.10J*														
	06/21/2011	254J*		<0.790J*				401100														
	01/23/2010	303	277	1011 000																		
	10/21/2014	53.2			<2.40	<2.40	<2 40	<2.40														
	03/10/2014	71.2	67.6		<3.00	<3.00	~2.10	<3.00														
	04/02/2013	102J*	07.0			<3.10J*		<3.10J*														
0162	12/13/2011	166J*				<3.10J*		<3.10J*														
	07/18/2011	210J*		<0.790J*		1011100		401100														
	02/01/2010	248																				
	08/12/2014	67.7	75.0		<2.40	<2.40		<2.40														
	12/27/2013	97.7	84.9		<3.00	<3.00		<3.00														
	07/26/2013	114J*	0.110			<3.10J*		<3.10J*														
0164	01/14/2013	143J*				<3.10J*		<3.10J*														
	08/10/2011	220J*		<3.10J*																		
	02/11/2010	255																				
	11/12/2014	148					1					1										
	08/26/2014	145	147									1							1			
	05/27/2014	147										1							1			
	03/10/2014	156										1							1			
	03/07/2014	138	150		<3.00	<3.00		<3.00														
	11/19/2013	153										1							1			
	09/05/2013	152										1							1			
0017		163																				
0217	06/05/2013	164																				
	05/17/2013	164J*			<3.10J*	<3.10J*		<3.10J*														
	03/11/2013	173										1							1			
	07/18/2012	169J*			<3.10J*	<3.10J*		<3.10J*											İ			
	09/22/2011	211J*						<3.10J*														
	04/14/2011	217JL*		<5.00J*								1							1			
	03/10/2011	154								1						1		1				
	01/06/2010	108										İ							İ			
	07/18/2014	136	128		<2.40	<2.40		<2.40				1										
0010	07/26/2013	131J*				<3.10J*		<3.10J*														
0219	06/28/2012	65.1J*			<3.10J*		1	<3.10J*		1	1					1		1				
	01/06/2010	89.8								1	ĺ	İ						1	İ		ĺ	

	Sample Port	1	A	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DUP															
PW-ID	Sample Date									Sulfol	ane (µg/l)										
	09/11/2014	129	133		<2.40	<2.40	<2.40														
	03/31/2014	120	126		<2.00	<2.00	<2.00														
	08/13/2013	115J*			<3.10J*	<3.10J*	<3.10J*			[							1			[	
0221	03/15/2013	155J*			<3.10J*	<3.10J*	<3.10J*			ĺ							1	1		ĺ	
	07/19/2012	149J*			<3.10J*	<3.10J*	<3.10J*			1							1	1		1	
	11/04/2011	162J*		<3.10J*																	
	02/04/2010	152															<u> </u>				
	07/22/2014	23.9	24.2		<2.40	<2.40	<2.40											1			
	04/14/2014	26.4	26.8		<2.00	<2.00	<2.00														
	01/14/2014	24.4	27.9		<3.00	<3.00	<3.00														
	09/17/2013	28.3	26.8		<3.10	<3.10	<3.10														
	06/14/2013	30.9J*	20.0		<3.10J*	<3.10J*	<3.10J*														
	03/08/2013	36.2J*			<3.10J*		<3.10J*														
	12/17/2012	47.3J*			<3.10J*		<3.10J*											1			
0225	10/08/2012	45.8J*			<3.10J*	<3.10J*	<3.10J*														
	07/12/2012	51.8J*				<3.10J*	<3.10J*														
	04/23/2012	59.4J*				<3.10J*	<3.10J*			ļ							<u> </u>	+		ļ	
	01/25/2012	62.4J*				<3.10J*	<3.10J <3.10J*														<u> </u>
	11/14/2011	64.9J*		<3.10J*	<3.103	<3.103	<3.10J*														
						ļ	<3.10J														
	05/23/2011	109J*		<5.00J*						1							1	1	Į	1	
	11/14/2009	156	40.0		0.00	0.00	0.00.1*														<u> </u>
	04/18/2014	44.6	48.3		<2.00	<2.00	<2.00J*										ļ			<u> </u>	
	04/29/2013	49.4J*			<3.10J*	<3.10J*	<3.10J*			ļ							<u> </u>			Į	
0232	08/30/2012	55.9J*				<3.10J*	<3.10J*											ļ	ļ		
	12/02/2011	48.4J*			<3.10J <sup>*</sup>	<3.10J*	<3.10J*											ļ			
	06/24/2011	41.0J*		<0.790J*						ļ							ļ			ļ	
	02/12/2010	43.7	ļ							ļ							ļ	Į	ļ	ļ	ļ
	11/11/2014	10.1			<2.40	<2.40	<2.40			ļ									ļ	ļ	
	01/20/2014	9.60J	9.20J		<3.00	<3.00	<3.00														
	04/03/2013	9.80J*		<3.10J*						ļ							ļ	ļ		ļ	
0295	09/21/2012	9.60J*			<3.10J*	<3.10J*	<3.10J*														
	10/21/2011	8.70J*		<3.10J*						L							L	L		L	
	08/26/2011	7.89J								ļ										ļ	
	04/15/2010	<10.0																			
	11/19/2014	10.4																			
	11/18/2014	11.3			<2.40	<2.40	<2.40														
	06/04/2014	10.4	10.4															1			
	03/24/2014	11.6								Į							Į			L	
	03/17/2014	11.2	10.1		<3.00	<3.00	<3.00			ļ										ļ	
	12/04/2013	11.5																		ļ	
	11/15/2013	10.6J*	10.5		<3.10	<3.10	<3.10														
	09/12/2013	11.2																			
	07/16/2013	11.6J*			<3.10J*	<3.10J*	<3.10J*												1		
0296	06/13/2013	13.4	12.5																		
	00/13/2013	12.6															1				
	03/21/2013	11.9																			
	01/02/2013	9.60J*			<3.10J*	<3.10J*	<3.10J*														
	08/14/2012	12.5J*				<3.10J*	<3.10J*														
	05/21/2012	10.6J*				<3.10J*	<3.10J*			1							1	1		1	
	02/13/2012	9.50J*				<3.10J*	<3.10J*			İ								1		İ	
	09/08/2011	6.90J*	<b></b>	<3.10J*						1							1	1		1	
	08/05/2011	7.17J	1							1				1			1	1	1	1	
	03/27/2010	<10.6	<10.6														1	1	1	İ	1
					L	ll.	L		٤		٤					L	٤	<i>l</i>	٤	٤	1

	Sample Port	A	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date	· · · · · ·									Sulfo	lane (µg/l)										
	09/16/2014	14.8			<2.40	<2.40		<2.40						1				1	1			
	12/23/2013	11.1	9.90J		<3.00	<3.00		<3.00										1				
	04/16/2013	10.2J*				<3.10J*		<3.10J*										1				
	10/26/2012	8.80J*				<3.10J*		<3.10J*										1				
0298	04/19/2012	7.60J*				<3.10J*		<3.10J*										1				
	09/13/2011	8.20J*		<3.10J*																		
	07/26/2011	8.64J										1										
	03/07/2011	<10.2																				
	03/23/2010	<10.2																				
	09/02/2014	16.4	16.0		<2.40	<2.40		<2.40														
	08/20/2013	8.40J*	10.0		<3.10J*			<3.10J*										1				
	06/16/2012	8.00J*				<3.10J*		<3.10J*														
0299	02/06/2012	7.90J*				<3.10J*		<3.10J*														
0200	08/03/2011	<3.10J*		<3.10J*	<0.100	<0.100		<0.100														
	07/17/2011	7.00J		<0.100																		
	04/15/2010	<10.3																				
	09/22/2014	17.4			<2.40	<2.40		<2.40				+						1				
	02/03/2014	13.5	14.2		<3.00	<3.00		<3.00														
	09/23/2013	12.6	10.0J		<3.10	<3.10		<3.10														
	04/22/2013	10.3J*	10.05			<3.10J*		<3.10J*														
0300	10/08/2012	9.80J*				<3.10J*		<3.10J*														
0000	02/06/2012	8.70J*				<3.10J*		<3.10J*														
	07/28/2011	9.80J*		<3.10J*	<0.100	<0.100		<0.100							+							
	07/21/2011	8.26J		<0.100														1				
	02/23/2010	<10.9						·····														
	08/01/2014	14.1	13.2		<2.40	<2.40		<2.40							+							
	08/26/2013	8.20J*	10.2			<3.10J*		<3.10J*										1				
0301	09/26/2012	9.30J*		<3.10J*	<0.100	<0.100		<0.100														
0001	08/04/2011	8.64J		<0.100																		
	05/12/2010	<10.4																				
	08/12/2014	13.9	14.3		<2.40	<2.40		<2.40				+										
	08/27/2013	11.4J*	14.5		<3.10J*	·}·······		<3.10J*														
	09/18/2012	7.30J*				<3.10J*		<3.10J*														
	03/10/2012	6.90J*			<3.100	<3.100		<3.100														
0302	10/26/2011	<3.10J*																				
0002		<3.10J*																				
	09/22/2011	6.90J*																				
	08/01/2011	6.77J																				
	04/15/2010	<10.9																				
	09/30/2014	15.2			<2.40	<2.40		<2.40														
	02/11/2014	15.2	13.9					<3.00														
	06/24/2013	14.1J*	10.9			<3.10J*		<3.10J*														
	01/15/2013	14.13 11.4J*				<3.10J <3.10J*		<3.10J*				+										
	05/25/2012	11.4J 12.2J*				<3.10J <3.10J*		~3.103	~3 10 !*	<3.10J*												
0303	02/15/2012	12.2J 11.2J*				<3.10J <3.10J*		<3.10J*	~3.103	<u></u>												
	08/26/2011	10.8J*		<3.10J*	<0.100			~0.100														
	07/12/2011	12.6		~0.100								+										
	03/16/2010	<10.3																				
	12/21/2009	<10.3													+							
L	12/21/2009	<10.5		1	l	L			1	1		<u> </u>			1		1	1	l	l	Į	·

	Sample Port	4	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)										
	10/10/2014	26.1			<2.40	<2.40		<2.40			1		1					1	1		1	
	03/10/2014	22.4	24.6		<3.00	<3.00		<3.00J*														
	08/23/2013	19.6J*				<3.10J*		<3.10J*														
0304	11/26/2012	23.4J*			<3.10J*			<3.10J*			1								1	İ	İ	
	04/18/2012	19.7J*		<3.10J*							1							1		1	1	
	02/26/2010	13.9																				
	06/27/2014	22.4			<2.40	<2.40		<2.40												<u> </u>		
	02/03/2014	17.5	19.1		<3.00	<3.00		<3.00J*														
	07/16/2013	16.5J*			<3.10J*	<3.10J*		<3.10J*														
	02/01/2013	13.7J*						<3.10J*														
0305	10/26/2012	15.2J*				<3.10J*		<3.10J*														
0000	07/13/2012	16.5J*			<3.10J*			<3.10J*														
	10/05/2011	14.5J*		<3.10J*	<0.100	<0.100		<0.100														
	08/19/2011	16.2		<b>~</b> 0.100																		
	05/01/2010	<10.2																		<u> </u>		
	11/10/2014	17.8			<2.40	<2.40		<2.40														
	08/08/2014	18.4			<2.40	<2.40		<2.40			ļ								<u> </u>	ļ	ļ	
	05/09/2014	17.4			<2.40	<2.40		<2.40				[										
	01/31/2014	16.7	16.1		<3.00	<3.00		<2.00														
	10/14/2013	12.2	12.3		<3.00	<3.10		<3.003														
	07/08/2013	13.5J*	12.3			<3.10 <3.10J*		<3.10 <3.10J*														
0307		16.8J*				<3.10J <3.10J*										1						
0307	03/29/2013 12/11/2012	16.6J*				<3.10J <3.10J*		<3.10J* <3.10J*						+	+			+				
	08/29/2012	13.7J*				<3.10J*		<3.10J*				ļ										
	03/19/2012	13.7J*		0.40.1*	<3.10J	<3.10J*		<3.10J*														
	09/20/2011	11.4J*		<3.10J*																	ļ	
	07/26/2011	12.3																				
	05/05/2010	<10.5	4 00 1		0.40	0.40		0.40														
	09/26/2014	4.90J	4.80J		<2.40	<2.40		<2.40														
	05/16/2014	3.10J	3.10J		<2.00	<2.00		<2.00														
	08/23/2013	5.50J*			<3.10J*	<3.10J*		<3.10J*														
0308	03/08/2013	7.20J*			<3.10J*			<3.10J*			<b> </b>									<u> </u>	<u> </u>	
	09/10/2012	7.20J*		0.40.14	<3.10J*	<3.10J*		<3.10J*														
	05/24/2012	7.10J*		<3.10J*																		
	09/16/2011	7.19J																-				
	04/16/2010	<10.0	40.4		0.40	0.40		0.40			<b> </b>							1		<b> </b>	<b> </b>	
	06/09/2014	10.5	10.4		<2.40	<2.40		<2.40			ļ									ļ	ļ	
	01/31/2014	9.70J*			0.10	0.10		0.10										-	<u> </u>			
	11/15/2013	9.70J			<3.10	<3.10		<3.10			ļ								ļ	ļ	ļ	
	09/24/2013	8.60J	8.80J		<3.10	<3.10		<3.10		ļ	ļ	ļ								ļ	ļ	
	07/09/2013			<3.10J*				<3.10J*		<u> </u>	ļ	ļ						<u> </u>		ļ	ļ	
	06/25/2013	10.2JL*				<3.10J*		<3.10J*			ļ						ļ		<b> </b>	ļ	ļ	
0309	04/22/2013	9.00J*				<3.10J*		<3.10J*					ļ						ļ			
	01/29/2013	7.60J*				<3.10J*		<3.10J*		ļ	ļ	ļ	ļ			ļ		ļ	Į	ļ	ļ	
	11/16/2012	9.90J*				<3.10J*		<3.10J*		ļ	ļ	ļ	ļ	ļ	ļ		ļ	ļ	ļ	ļ	ļ	
	06/11/2012	8.40J*				<3.10J*		<3.10J*			ļ								ļ	ļ	ļ	
	04/23/2012	8.70J*			<3.10J*	<3.10J*		<3.10J*			ļ	ļ						1		ļ	ļ	
	10/18/2011	7.70J*		<3.10J*							ļ		ļ				ļ	ļ	ļ	ļ	ļ	
	08/29/2011	7.28J									ļ					ļ			ļ	ļ	ļ	
	04/19/2010	<10.0						<u> </u>			<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	

	Sample Port	4	4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfo	ane (µg/l)										
		12.5	12.1			<2.40		<2.40		1									1		1	
	07/28/2014					<2.40													1			
	02/28/2014	12.1	12.4		<3.00	<3.00		<3.00											1			
	10/07/2013	10.0			<3.10	<3.10		<3.10		1		1						1		İ	İ	
0311	03/04/2013	10.0J*				<3.10J*		<3.10J*		1		1						1	1	1	1	
	07/11/2012	10.0J*				<3.10J*		<3.10J*														
	09/09/2011	7.80J*		<3.10J*														<u> </u>		<u> </u>		
	07/25/2011	7.55J																	1			
	04/19/2010	<10.0																				
	06/27/2014	17.1	15.7		<2.40	<2.40		<2.40														
	02/07/2014	15.2	12.4		<3.00	<3.00		<3.00														
	06/14/2013	12.7J*			<3.10J*			<3.10J*										1				
0312	08/30/2012	12.5J*		<3.10J*	10.100	101100		401100														
	08/31/2011	10.9		40.100															1			
	03/27/2010	<10.8																				
	04/21/2014	<2.00	<2.00		<2.00	<2.00		<2.00														
	07/30/2013	<3.10J*	~2.00	+		<3.10J*		<3.10J*		1								1	1	1	1	
	12/03/2012	5.10JH*				<3.10J*		<3.10J*											1			
0347	01/31/2012	6.10J*		<3.10J*	<0.100	<0.100		<0.100											1			
	10/28/2011	5.16J		<0.100															+			
	02/13/2010	<10.3																				
	09/22/2014	<2.40	<2.40		<2.40	<2.40		<2.40														
	06/09/2014	<2.40	<2.40		<2.40	<2.40		<2.40														
	01/14/2014	<3.00	<3.00		<3.00	<3.00		<3.00										1				
	09/23/2013	<3.00	<3.00		<3.10	<3.00		<3.00														
0348	02/26/2013	<3.10				<3.10J*		<3.10 <3.10J*														
0340	07/16/2012	<3.10J*				<3.10J*		<3.10J*		1								1				
	11/03/2011	<3.10J*		<3.10J*	<3.103	<3.103		<3.105														
	08/19/2011	3.37J	3.98J	<3.100																		
	02/22/2010	<10.9	3.905							1		1								1	1	
	10/17/2014	<2.40			<2.40	<2.40	-2.40	<2.40														
	05/21/2014	<2.40	<2.00		<2.40	<2.40	<2.40	<2.40														
	01/03/2014	<3.00	<2.00		<3.00	<3.00		<3.00														
0364	09/09/2013 01/07/2013	<3.10J* <3.10J*			<3.10J*	<3.10J <3.10J*		<3.10J* <3.10J*														
0004	05/07/2012	<3.10J <3.10J*			<3.10J <3.10J*			<3.10J <3.10J*														
	08/30/2011	<3.10J 4.60J*		<3.10J*	<3.10J	<3.10J		<3.10J														
	07/22/2011	4.60J 4.19J		<b>~</b> 3.103						l		<u> </u>						l	1	<u> </u>	<u> </u>	
	02/13/2010	<10.4																				
	09/22/2014	<10.4			<2.40	<2.40		<2.40											1	<u> </u>		
	07/11/2014	<2.40	<2.40		<2.40	<2.40		<2.40														
	04/11/2014	<2.40	<u>~2.40</u>		<2.40	<2.40	+	<2.40											+			
	12/20/2013	<2.00 <3.00J*	<3.00J*		<3.00	<3.00		<3.00											+			
	09/20/2013	<3.000	<3.10		<3.00	<3.00		<3.00														
0365 §	07/02/2013	<3.10 <3.10J*	~3.10		<3.10 <3.10J*			<3.10 <3.10J*														
0202.2	04/16/2013	<3.10J <3.10J*				<3.10J <3.10J*		<3.10J <3.10J*														
	01/18/2013	<3.10J <3.10J*				<3.10J <3.10J*		<3.10J <3.10J*			1											
	10/23/2012	<3.10J <3.10J*		<3.10J*	<3.10J	<3.10J		<3.10J			1								1			
	08/09/2011	<5.103		<3.10J																		
		<0.20																				
	02/23/2010	<11.0	L	L	1	L	1	I	1	<u>l</u>	l	<u>l</u>	L	L	L	l	I	1	1	J	J	l

	Sample Port	ł	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)	)									
	10/13/2014	<2.40	<2.40		<2.40	<2.40		<2.40			l	l							l			
	08/15/2014	2.50J	2.50J		<2.40	<2.40		<2.40														
	05/02/2014	<2.00	<2.00		<2.00	<2.00		<2.00														
	02/18/2014	<3.00	<3.00		<3.00	<3.00		<3.00														
	01/07/2014	<3.00	3.40JH*		<3.00	<3.00		<3.00		1												
	11/18/2013	<3.10	<3.10		<3.10	<3.10J*		<3.10														
	11/10/2013					<3.10																
	09/03/2013	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
0376	07/18/2013	<3.10J*			<3.10J*			<3.10J*														
0370	05/06/2013	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	03/18/2013	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	01/25/2013	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	11/16/2012	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	07/09/2012	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	04/10/2012	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	10/05/2011	<3.10J*		<3.10J*																		
	05/26/2011	4.49J																				
	02/16/2010	<10.3																				
	10/13/2014	5.20J			<2.40	<2.40		<2.40														
	06/09/2014	6.40J			<2.40	<2.40		<2.40		]												
	05/02/2014	6.90J			<2.00	<2.00J*		<2.00														
	03/17/2014	7.10J	5.60J		<3.00	<3.00		<3.00J*														
	11/18/2013	6.00J	6.60J		<3.10	<3.10		<3.10														
	09/03/2013	9.00JL*			<3.10J*	<3.10J*		<3.10J*														
0377	05/06/2013	8.70J*			<3.10J*	<3.10J*		<3.10J*														
	12/18/2012	16.8JH*			<3.10J*	<3.10J*		<3.10J*														
	08/30/2012	9.10J*			<3.10J*	<3.10J*		<3.10J*		]												
	04/02/2012	10.8J*			<3.10J*			<3.10J*														
	12/20/2011	10.3J*			<3.10J*	<3.10J*		<3.10J*														
	08/12/2011	12.5J*		<3.10J*																		
	02/16/2010	11.9																				
	08/29/2014	4.10J			<2.40	<2.40		<2.40														
	06/10/2014	<2.40			<2.40	<2.40		<2.40														
	05/02/2014	4.00J	4.00J		<2.00	<2.00		<2.00														
	02/18/2014	<3.00			<3.00	<3.00		<3.00														
	11/18/2013	4.00J			<3.10	<3.10		<3.10														
0378	09/03/2013	<3.10J*			<3.10J*	<3.10J*		<3.10J*														
	07/18/2013	4.50J*			<3.10J*	<3.10J*		<3.10J*														
	04/05/2013	5.60J*			<3.10J*	<3.10J*		<3.10J*														
	12/03/2012	6.40JH*						<3.10J*		ļ					-							
	07/09/2012	6.40J*			<3.10J*	<3.10J*		<3.10J*														
	12/19/2011	7.00J*		<3.10J*						ļ								ļ				
	06/16/2011	7.65J								ļ	ļ							ļ	ļ			
	07/25/2014	7.10J	7.30J		<2.40	<2.40		<2.40		ļ	<u> </u>	<u> </u>						ļ	ļ			ļ
	09/17/2013	8.30J			<3.10	<3.10		<3.10		ļ	ļ	ļ	ļ	ļ	ļ	ļ		ļ	ļ			ļ
	06/05/2013	9.70J*			<3.10J*	<3.10J*		<3.10J*		ļ	<u> </u>		<u> </u>					ļ				
	03/11/2013	9.00J*			<3.10J*			<3.10J*		ļ	ļ	ļ										
0390	01/22/2013	7.20J*			<3.10J*	, demonstration and the second s		<3.10J*		ļ			ļ	<u> </u>								ļ
	07/13/2012	8.60J*			<3.10J*	<3.10J*		<3.10J*		ļ	ļ				-				ļ			
	12/09/2011	6.30J*		<3.10J*						ļ	ļ	ļ	ļ	<u> </u>					ļ			<u> </u>
	10/15/2011	7.25J								ļ	l		ļ	4								
	02/25/2010	<10.9								1		1		1	1							

	Sample Port	ł	4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)										
	02/28/2014	<3.00	<3.00		<3.00	<3.00		<3.00			1								1			
	07/25/2013	3.80J*		<3.10J*																		
0391	05/29/2012	<6.20																				
	07/22/2011	<6.20																				
	02/27/2010	<10.9																				
	08/25/2014	27.0			<2.40	<2.40		<2.40														
	09/13/2013	19.9J*			<3.10J*	<3.10J*		<3.10J*														
	04/15/2013	19.5J*			<3.10J*	<3.10J*		<3.10J*														
0393	11/13/2012	19.0J*			<3.10J*	<3.10J*		<3.10J*														
0393	06/07/2012	16.6J*			<3.10J*	<3.10J*		<3.10J*														
	11/04/2011	14.2J*		<3.10J*																		
	09/08/2011	14.8	14.9																			
	02/17/2010	<10.4																				
	09/16/2014	15.4	15.1		<2.40	<2.40		<2.40														
	08/06/2013	11.8J*			<3.10J*	<3.10J*		<3.10J*														
0394	08/07/2012	12.3J*			<3.10J*	<3.10J*		<3.10J*														
0394	12/27/2011	9.10J*		<3.10J*																		
	11/04/2011	9.88J																				
	04/21/2010	<10.4																				
	08/08/2014	21.7	22.1		<2.40	<2.40		<2.40														
	02/10/2014	14.3JL*			<3.00J*	<3.00J*		<3.00J*														
	09/30/2013	14.7	14.9		<3.10	<3.10		<3.10														
	06/05/2013	13.6J*			<3.10J*	<3.10J*		<3.10J*														
0439	01/29/2013	11.9J*			<3.10J*	<3.10J*		<3.10J*														
0433	10/16/2012	14.7J*			<3.10J*	<3.10J*		<3.10J*														
	06/11/2012	14.6J*			<3.10J*	<3.10J*		<3.10J*														
	09/20/2011	14.3J*		<3.10J*																		
	06/08/2011	10.6																		<u> </u>		
	02/11/2010	<10.3																				
	11/24/2014	39.3			<2.40	<2.40	<2.40		<2.40		L							ļ		L	<u> </u>	L
	02/07/2014	32.8	34.8		<3.00	<3.00		<3.00														
	07/09/2013	27.4J*			<3.10J*			<3.10J*														
0442	06/25/2013	31.5J*				<3.10J*		<3.10J*														
	09/12/2012	27.3J*			<3.10J*	<3.10J*		<3.10J*	[	[												
	06/16/2011	19.2J*		<0.790J*																		
	02/13/2010	14.3																				
	11/18/2014				<2.40																	
	10/20/2014	62.8			<2.40		2.80J	<2.40														
	01/07/2014	74.2			<3.00	<3.00		<3.00														
	05/13/2013	55.8J*			4.90J*	<3.10J*		<3.10J*														
0453	10/22/2012	47.7J*			<3.10J*	<3.10J*		<3.10J*	<u> </u>	Į	ļ							ļ	1	ļ	ļ	Ļ
	04/23/2012	50.0J*			<3.10J*	<3.10J*		<3.10J*			ļ			ļ	ļ			ļ	1	ļ	ļ	ļ
	11/15/2011	37.1J*		<3.10J*			ļ	17.3J*	[	Į	Į		ļ					Į	Į	Į	Į	ļ
	04/27/2011	38.0J*		<5.00J*							ļ								1	ļ	ļ	
	02/08/2010	12.2									ļ		ļ					ļ		ļ	ļ	ļ
	07/25/2014	52.7JL*			<2.40	<2.40		<2.40			ļ							ļ	1	Į	ļ	
	08/09/2013	38.9J*			<3.10J*	<3.10J*		<3.10J*											1			ļ
0454	11/15/2011	38.8J*		<3.10J*				<3.10J*	ļ	ļ	ļ		ļ	ļ	ļ			ļ	ļ	ļ	ļ	ļ
	04/29/2011	43.2J*		<5.00J*							ļ							ļ	<u> </u>	ļ	ļ	
	02/08/2010	21.9	<u> </u>	<u> </u>			<u> </u>				1	L	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	1	<u> </u>	<u> </u>	

	Sample Port	ŀ	4	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DUP							-								
PW-ID	Sample Date					1				Sulfol	lane (µg/l)	)									
	10/03/2014	3.60J	l		<2.40	<2.40	<2.40		1	1				1				1		1	
	06/30/2014	6.10J			<2.40	<2.40	<2.40			1	1						1		1	1	
	03/17/2014	14.9			<3.00	<3.00	<3.00		1												
	01/03/2014	12.4	7.00J*			<3.00J*	<3.00			1							1	1			
0456	09/02/2013	11.4JL*				<3.10J*	<3.10J*			1	1						1	1	1	1	
	05/14/2013	15.5J*		<3.10J*																	
	07/18/2011	9.17J															<u> </u>		<u> </u>		
	02/10/2010	<10.6																			
	11/11/2014	49.2																			
	09/09/2014	45.0																			
	08/15/2014	44.2			<2.40	<2.40	<2.40														
	05/29/2014	40.4			~2.10	×2.10	~2.10														
	03/28/2014	39.9	32.7		<2.00	<2.00	<2.00														
	03/11/2014	36.2	02.1		~2.00	~2.00	~2.00														
	12/16/2013	33.0			<3.10	<3.10	<3.10														
	11/25/2013	39.4				10110															
	09/12/2013	34.7		1					1	1	1							1		1	
	08/16/2013	26.6J*			<3 10.1*	<3.10J*	<3.10J*														
0463		33.2			40.100	30.100	100.100														
	06/27/2013	33.3																			
	04/08/2013	29.0J*			<3 10.1*	<3.10J*	<3.10J*														
	04/04/2013	27.9			40.100	30.100	100.100										1				
	12/14/2012	35.1J*			<3 10.1*	<3.10J*	<3.10J*														
	08/17/2012	29.4J*				<3.10J*	<3.10J*														
	03/15/2012	27.1J*				<3.10J*	<3.10J*														
	11/28/2011	26.7J*		<3.10J*		101100	<3.10J*														
	05/18/2011	25.8J*		<5.00J*		· · · ·	101100														
	02/10/2010	25.1		101000																	
	11/12/2014	32.8																			
	09/11/2014	33.2	33.3		<2.40	<2.40	<2.40														
	09/10/2014	31.1																			
	06/19/2014	30.4	31.4																		
	03/11/2014	33.0	01.1																		
	12/16/2013	31.4																			
	11/01/2013	25.9	26.8		<3.10	<3.10	<3.10														
0466	09/09/2013	29.5	29.0		\$0.10	\$0.10	\$0.10														
		26.8	20.0														1				
	06/12/2013	26.6																			
	04/18/2013	23.1	23.9																		
	10/17/2012	20.6J*	20.0	<3.10J*																	
	09/07/2012	14.4							1												
	02/09/2010	<10.7																			
	08/29/2014	63.9		+	<2.40	<2.40	<2.40			+	+			+			<u> </u>	+	<u> </u>	+	
	07/23/2014	83.5J*				<3.10J*	<3.10J*		1												
	07/10/2012	116J*				<3.10J*	<3.10J*														
0480	03/19/2012	1103 111J*		-		<3.10J*	<3.10J*														
	09/26/2012	115J*		<3.10J*			1 20.100		+	+	+							+	<u> </u>	+	
	02/03/2010	78.7		~0.100		<u> </u>															
	02/03/2010	10.1	L		L	L		L	1	1	1	<u> </u>	l	L		l	l	1	l	1	

	Sample Port	ŀ	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP					-	-									
PW-ID	Sample Date										Sulfol	ane (µg/l)										
	05/19/2014	61.7	61.0		<2.00	<2.00		<2.00			1		1						[			
	08/16/2013	69.7J*			<3.10J*	<3.10J*		<3.10J*														
	07/10/2012	122J*	h			<3.10J*		<3.10J*		[	1	[						1	1	[		
0483	09/22/2011	118J*						<3.10J*										1				
	04/05/2011	159		<5.00				101100														
	01/23/2010	114		10.00																		
	09/12/2014	47.0	50.4		<2.40	<2.40		<2.40														
	06/13/2014	59.0	50.4		<2.40	<2.40		<2.40														
	02/17/2014	66.1	61.5		<3.00	<3.00		<3.00J*														
	11/04/2013	61.3	62.4		<3.10	<3.10		<3.10														
	08/05/2013	56.7J*	02.4		<3.10J*	<3.10J*		<3.10J*														
0484	05/10/2013	75.2J*			<3.10J*	<3.10J*		<3.10J*														
0404	12/11/2012				<3.10J <3.10J*	<3.10J <3.10J*		<3.10J <3.10J*														
	07/12/2012	106J* 108J*			<3.10J 3.20J*	<3.10J <3.10J*		<3.10J <3.10J*														
						++																
	12/21/2011	106J*		0.40.1*	<3.10J*	<3.10J*		<3.10J*														
	08/24/2011	110J*		<3.10J*							ļ							ļ				
	02/03/2010	85.8	07.7		0.40	0.40		0.40														
	07/07/2014	81.5	87.7	0.00	<2.40	<2.40		<2.40														
	02/11/2014			<3.00						ļ	ļ	ļ	ļ	ļ				ļ		ļ		
	01/20/2014	97.0			<3.00	3.20J		<3.00			ļ	<u> </u>						ļ		<u> </u>		
0487	06/25/2013	112JL*				<3.10J*		<3.10J*		ļ	ļ	l						ļ		l		
	09/21/2012	139J*			<3.10J*	<3.10J*		<3.10J*			ļ							ļ				
	11/16/2011	153J*	<u> </u>	<3.10J*				<3.10J*														
	04/05/2011	187		<5.00																		
	01/27/2010	138									ļ											
	09/15/2014	93.3	96.1	<2.40																		
	06/14/2012	102J*			<3.10J*	<3.10J*		<3.10J*														
0488	09/23/2011	103J*				ļ		<3.10J*			ļ		ļ	ļ				ļ				
0100								<3.10J*														
	04/15/2011	178J*		<5.00J*																		
	01/27/2010	96.2																				
	08/01/2014	93.8			<2.40	<2.40		<2.40														
	07/30/2013	122J*			<3.10J*	<3.10J*		<3.10J*			[											
0489	12/14/2011	167J*			<3.10J*	<3.10J*		<3.10J*														
	07/08/2011	177J*		<0.790J*																		
	01/27/2010	113																				
	08/01/2014	99.1	96.8		<2.40	<2.40		<2.40														
	05/27/2014	100			<2.00	<2.00		<2.00														
0498	06/14/2013	128J*			<3.10J*	<3.10J*		<3.10J*														
0490	12/15/2011	160J*			<3.10J*	<3.10J*		<3.10J*			1							1				
	07/08/2011	157J*		<0.790J*																		
	01/27/2010	108																				
	08/04/2014	52.5	50.6		<2.40	<2.40		<2.40			[											
0500	09/06/2013	60.6J*			<3.10J*			<3.10J*		İ	1							1	İ			
0502	09/28/2012	101J*				<3.10J*		<3.10J*		1	1		İ	İ				1	1			
	11/14/2011	96.3J*	[	<3.10J*						1		1	1					1	1	1		
	09/12/2014	85.0	86.4		<2.40	<2.40		<2.40		1	İ	ĺ						İ	ĺ	ĺ		
	06/06/2014	97.3			<2.00	<2.00		<2.00														
	12/30/2013	89.2	81.0		<3.00	<3.00		<3.00														
0503	09/27/2013	80.3	1		<3.10	<3.10		<3.10		1	İ	l				1		İ	1	l		
	09/12/2012	110J*	1			<3.10J*		<3.10J*			1							1				
	09/12/2012	82.8J*		<3.10J*				<3.10J*										1				
	03/09/2010	56.1									<u> </u>							<u> </u>				
	00/00/2010	30.1	l	L	L	il		L		1	1	1	i	l	l	I	I	1	1	1	l	<u>i</u>

	Sample Port	ł	4	C	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP		-		DUP															
PW-ID	Sample Date			- I							Sulfol	ane (µg/l)										
	05/09/2014	55.1	55.2		<2.00	<2.00		<2.00			1								1			
	09/20/2013	54.9	54.2		<3.10J*	<3.10		<3.10			1											
	09/05/2012	76.2J*				<3.10J*		<3.10J*			1											
0504	12/30/2011	94.6J*				<3.10J*		<3.10J*			1											
	06/16/2011	103J*		<0.790J*							1											
	01/07/2010	65.3																				
	10/03/2014	97.3	97.9		<2.40	<2.40		<2.40														
	02/01/2012	116J*				<3.10J*		<3.10J*														
0506 §	08/02/2011	124J*		<3.10J*																		
	03/21/2011	94.2																				
	09/29/2014	4.40J									<2.40			<2.40			<2.40			<2.40	<2.40	<2.40
	05/30/2014	<2.00										<2.00	<2.00		<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	<2.00
	11/01/2013	<3.10										<3.10	<3.10		<3.10	<3.10		<3.10	<3.10	<3.10	<3.10	<3.10
	08/02/2013	<3.10J*										<3.10J*	<3.10J*			<3.10J*		<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	07/26/2013	<3.10J*									<3.10J*			<3.10J*			<3.10J*			<3.10J*	<3.10J*	<3.10J*
	07/02/2013	<3.10J*										<3.10J*	<3.10J*		<3.10J*	<3.10J*		<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	06/10/2013	<3.10J*									1	<3.10J*	<3.10J*		<3.10J*			<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	05/07/2013	<3.10J*										<3.10J*	<3.10J*		<3.10J*	<3.10J*		<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10
0511 §	04/12/2013	<3.10J*										<3.10J*	<3.10J*		<3.10J*	<3.10J*		<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	03/15/2013	<3.10J*	l									<3.10J*	<3.10J*			<3.10J*		<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	02/15/2013	<3.10J*									1	<3.10J*	<3.10J*			<3.10J*		<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	01/18/2013	<3.10J*											<3.10J*		<3.10J*			<3.10J*	<3.10J*	<3.10J*	<3.10J*	<3.10J*
	12/10/2012	<3.10J*									<3.10J*		<3.10J*	<3.10J*		<3.10J*	<3.10J*		<3.10J*	ş	<3.10J*	
	10/22/2012	3.90J*									<3.10J*			<3.10J*			<3.10J*					
	08/11/2011	4.07J	4.27J																1			
	02/23/2010	<10.6																				
-	08/19/2014	9.80JL*	10.3JL*	<	<2.40J*	<2.40J*		<2.40J*														
	05/06/2014	6.80J*	6.20J		<2.00	<2.00		<2.00														
	01/20/2014	<3.00X*	6.50J		<3.00	6.40X*		<3.00			1											
	10/22/2013	5.20J			<3.10	<3.10		<3.10											1			
	07/30/2013	4.90J*		<	<3.10J*	<3.10J*		<3.10J*			1								1			
	06/21/2013	3.90J*		<	<3.10J*	<3.10J*		<3.10J*														
0544	04/12/2013	<3.10J*		<		<3.10J*		<3.10J*														
0514	01/15/2013	6.50J*		<	<3.10J*	<3.10J*		<3.10J*														
	10/23/2012	6.80J*			<3.10J*	<3.10J*		<3.10J*														
	07/18/2012	6.60J*			<3.10J*	<3.10J*		<3.10J*														
	04/09/2012	5.40J*			<3.10J*	<3.10J*		<3.10J*														
	08/19/2011	6.60J*		<3.10J*																		
	07/21/2011	7.42J																				
	04/15/2010	<10.4																				
	06/02/2014	3.80J			<2.00	<2.00		<2.00														
	10/21/2013	4.00J			<3.10	<3.10		<3.10														
	04/08/2013	<3.10J*		<	<3.10J*	<3.10J*		<3.10J*														
0515	08/08/2012	6.60J*		<		<3.10J*		<3.10J*														
0515	02/01/2012	8.10J*		<	<3.10J*	<3.10J*		<3.10J*											1			
	08/19/2011	7.80J*		<3.10J*																		
	07/18/2011	6.74J						1														
	04/13/2010	<10.0	<10.0					1											1			

	Sample Port	4	4	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DUP															
PW-ID	Sample Date						-			Sulfo	ane (µg/l)										
	07/14/2014	20.7	19.5		<2.40	<2.40	<2.40		1	1							1	1		1	
	01/27/2014	15.2	17.0		<3.00	<3.00	<3.00														
	07/29/2013	18.1J*			<3.10J*	<3.10J*	<3.10J*			1	1							1			
05.40	02/05/2013	17.1J*			<3.10J*	<3.10J*	<3.10J*				1						1	1		1	
0542	08/30/2012	16.5J*			<3.10J*	<3.10J*	<3.10J*			1							1	1			
	02/15/2012	14.7J*				<3.10J*	<3.10J*			1	1						1				
	08/01/2011	15.7J*		<3.10J*																	
	04/09/2010	11.3									1						1	1		1	
	09/19/2014	15.4	15.4		<2.40	<2.40	<2.40														
	05/19/2014	15.1			<2.00	<2.00	<2.00		-												
	01/17/2014	16.2			<3.00	<3.00	<3.00														
	08/19/2013	20.2J*			<3.10J*	<3.10J*	<3.10J*														
	04/01/2013	15.4J*			<3.10J*		<3.10J*										1				
0544	10/19/2012	13.6J*			<3.10J*		<3.10J*				1						1	1		1	
	05/22/2012	12.1J*		<3.10J*																	
	04/30/2012	12.0J*			<3.10J*	<3.10J*	<3.10J*				1						1	1		1	
	12/02/2011	11.5J*		<3.10J*					1	1											
	06/06/2011	8.65J																			
	04/18/2010	<10.0																			
	11/03/2014				<2.40	<2.40															
	10/10/2014	18.5	18.1		<2.40	4.10J	<2.40										1				
	12/20/2013	14.1			<3.00	<3.00	<3.00														
0550	07/09/2013	17.4J*				<3.10J*	<3.10J*			1											
0550	01/16/2013	12.8J*			<3.10J*		<3.10J*														
	04/03/2012	14.9J*				<3.10J*	<3.10J*			1	1						1	1		1	
	09/06/2011	13.8J*		<3.10J*					1		1						1				
	04/10/2010	13.4									1						1	1		1	
	09/23/2014	19.7	19.6		<2.40	<2.40	<2.40														
	06/20/2014	21.5	21.1		<2.40	<2.40	<2.40				1						1	[		[	
	02/25/2014	19.2			<3.00	<3.00	<3.00			1	ĺ						1	ĺ		Ì	1
	11/05/2013	18.3	17.5		<3.10	<3.10	<3.10				1						1	1		1	1
	06/10/2013	17.9J*			<3.10J*	<3.10J*	<3.10J*														
	01/03/2013	16.2J*			<3.10J*	<3.10J*	<3.10J*														
0553	10/12/2012	19.6J*			<3.10J*	<3.10J*	<3.10J*														i
	07/24/2012	20.2J*			<3.10J*	<3.10J*	<3.10J*														
	05/04/2012	18.0J*			<3.10J*	<3.10J*	<3.10J*														
	01/23/2012	18.6J*			<3.10J*	<3.10J*	<3.10J*														
	08/02/2011	18.6J*		<3.10J*																	
	06/10/2011	18.3																			
	04/10/2010	<10.4																			i
	04/15/2014	14.0	17.9		<2.00	<2.00	<2.00														
	05/31/2013	14.2J*			<3.10J*	<3.10J*	<3.10J*														
0554	06/19/2012	16.5J*		<3.10J*																	1
	07/08/2011	14.0																			
	04/17/2010	<10.0								1											1

	Sample Port	A	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP				-											
PW-ID	Sample Date					I					Sulfol	ane (µg/l)										
	05/06/2014	5.00J			<2.00	<2.00		<2.00			1				1	1	1	1	1		1	
	03/07/2014	6.80J			<3.00	<3.00		<3.00							1							
	11/19/2013	5.80J			<3.10	<3.10		<3.10			1								1			
	07/26/2013	5.00J*			<3.10J*			<3.10J*			İ								1			
	04/16/2013	5.00J*			<3.10J*			<3.10J*													1	
0556	01/07/2013	5.80J*			<3.10J*	******	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<3.10J*										1				
	10/19/2012	7.40J*			<3.10J*			<3.10J*							1							
	07/16/2012	8.10J*			<3.10J*	++		<3.10J*														
	03/15/2012	7.50J*		<3.10J*	1011100	101100		10.1.00														
	09/02/2011	8.02J		101100																		
	04/15/2010	<10.4													1							
	11/11/2014	17.0		1	<2.40	<2.40		<2.40														
	06/10/2014	14.0	15.4		<2.40	<2.40		<2.40														
	12/30/2013	12.2	10.1		<3.00	<3.00		<3.00										1				
	05/31/2013	11.1J*			<3.10J*	+	t.	<3.10J*							1			1				
0557	11/27/2012	17.8J*			<3.10J*	+		<3.10J*														
0001	02/22/2012	13.1J*		1	<3.10J*			<3.10J*													1	
	08/05/2011	14.9JL*		<3.10J*	40.100										1							
	07/08/2011	12.9		\$0.100																		
	09/29/2010	<11.1																				
	05/09/2014	20.5	20.1		<2.00	<2.00		<2.00										1				
	07/29/2013	18.6J*	20.1		<3.10J*			<3.10J*														
	01/14/2013	17.2J*			<3.10J*			<3.10J*	~~~~~~													
0558	02/20/2012	16.5J*			<3.10J*			<3.10J*														
	08/08/2011	19.5J*		<3.10J*											+							
	04/14/2010	11.5		<0.100					~~~~~~													
	09/05/2014	18.8	16.8		<2.40	<2.40		<2.40							1			1				
	05/23/2014	15.8	16.0		<2.00	<2.00		<2.00			<u> </u>										1	
	01/13/2014	15.3			<3.00	<3.00		<3.00														
	08/26/2013	12.5J*			<3.10J*			<3.10J*														
	04/29/2013	16.1J*			<3.10J*			<3.10J*										1				
0559	12/17/2012	16.7J*			<3.10J*	·}		<3.10J*														
	08/08/2012	15.4J*			<3.10J*			<3.10J*														
	03/15/2012	14.0J*			<3.10J*	1		<3.10J*														
	11/28/2011	13.4J*		<3.10J*				<3.10J*													1	
	06/06/2011	13.0J*		<0.790J*																		
	04/15/2010	13.4								1	İ	1			1			1	İ	1	1	
	07/07/2014	23.0		+	<2.40	<2.40		<2.40			1				1		1		1		1	
	01/27/2014	18.5			<3.00	<3.00		<3.00			<u> </u>											
	08/20/2013	18.4J*		1	<3.10J*			<3.10J*			1				1			1	1		1	
	03/08/2013	18.6J*			<3.10J*	+		<3.10J*			1				1							
0560	10/05/2012	15.8J*			<3.10J*			<3.10J*							1						1	
	04/24/2012	19.8J*		1	<3.10J*	*****		<3.10J*			İ							1	İ		<u>†</u>	
	11/14/2011	13.7J*		<3.10J*				<3.10J*						1	1							
	04/25/2011	20.5J*		<5.00J*				-0.100							-			1				
	04/14/2010	12.4												1				1				
	04/14/2010	12.4		<u> </u>		II				1	1	1	l		1		I	1	1	1	1	<u> </u>

PW10         Segis Date         Colore (gr)         Colore (gr)           040430714         28.1         < 20.0         20.0   <		Sample Port	A	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
PH40         Sample base					-																		
040402014         28.1	PW-ID											Sulfol	ane (µg/l)										
1227001         27.1			28.1			<2.00	<2.00		<2.00		1	1							1	1		1	
$ 00022013 23.14^{\circ} - 43.04^$																							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																				1			
O681         U1020203         21.37         43.00*         43.00*         43.00*           0691         0302012         24.37         43.00*         43.00*         43.00*         43.00*           05102012         24.00*         43.00*         43.00*         43.00*         43.00*         43.00*           05112011         20.01*         43.00*         43.00*         43.00*         43.00*         43.00*           0622         0512011         10.01*         43.00*         43.													İ							İ			
US01         10302012         24.37          63107         63													1						1	1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0561																						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					<3.10J*																		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																							
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$																							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						<2.00	<2.00		<2.00														
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$									·			1	1							1	[		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0562				<0.790J*																		
$0563 = \begin{bmatrix} 10282014 & 17.5 & .$																							
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						<2.40	<2.40	<2.40	<2.40														
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				18.3																			
0053         0522013         18.7/r         <3.0/r </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td> </td> <td></td> <td>1</td> <td></td>																			1			1	
0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	0563				<3.10J*			•															
$0664 = \begin{bmatrix} 04182010 & <10.6 \\ 10312014 & 21.7 & <2.40 \\ 05182014 & 90.00 \\ 111152013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012013 & 11.8 & 12.1 \\ 04012011 & 15.61 \\ 04012011 & 15.61 \\ 04012011 & 15.61 \\ 04012011 & 15.61 \\ 04012011 & 15.61 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 04142010 & 11.4 & 11.2 \\ 0412011 & 7.00^{1} & <2.00 & <2.00 & <2.00 \\ 0412011 & 7.00^{1} & <3.10^{1} & <3.10^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} \\ 0412011 & 7.00^{1} & <3.10^{1} \\ 0412010 & <10.4 & <10.0 \\ 0412010 & <10.4 & <10.0 \\ 0412010 & <10.4 & <10.0 \\ 0412011 & 7.431 & <3.10^{1} & <3.10^{1} \\ 0412010 & <10.4 & <10.0 \\ 0412011 & 7.431 & <3.10^{1} & <3.10^{1} \\ 0412011 & 7.431 & <3.10^{1} & <3.10^{1} \\ 0412011 & 7.431 & <3.10^{1} & <3.10^{1} \\ 0412011 & 10.3 & <10.4 & <10.0 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.6 & <10 \\ 0412011 & 10.5 & <10.7 & <10.0 & <10.0 \\ 04102012 & 10.5 & <10.7 & <10.0 \\ 04101 & <10.0 & <10.0 \\ 04101 & <10.0 & <10.0 \\ 04101 & <10.0 & <10.0 \\ 04101 & <10.0 & <10.0 \\ 04101 &$																							
$0664 \begin{array}{ c c c c c c c c c c c c c c c c c c c$																							
06662014         9.00J         -         2.00         -         2.00         -					<2.40								1						1	1		1	
11/15/2013         11.8         12.1         < <3.10         <3.10         <3.10         <						<2.00	<2.00		<2.00														
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				12.1																		1	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0504												1							1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0564												1						1	1		1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					<3.10J*					~~~~~										1		1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																				1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				11.2																			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				••••••		<2.40	<2.40	<2.40	<2.40				1						1	1			
08/12/2013         4.70J*          <         <         <         <         < <td></td> <td></td> <td></td> <td>&lt;2.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>				<2.00									1							1			
0565         11/30/2012         9.30,H*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,*         <3.10,* <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					<3.10J*																		
08/12/2011         7.90J*         <3.10J* </td <td>0565</td> <td></td> <td></td> <td></td> <td></td> <td>&lt;3.10J*</td> <td>&lt;3.10J*</td> <td></td> <td>&lt;3.10J*</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0565					<3.10J*	<3.10J*		<3.10J*				1										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					<3.10J*								1							1			
04/16/2010         <10.4         <10.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																							
06/23/2014         12.5         12.6         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40				<10.0																			
06/23/2014         12.5         12.6         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40         <2.40		10/03/2014	19.5	20.0		<2.40	<2.40		<2.40														
01/28/2014         12.5         11.8         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00													1							1			
09/02/2013         13.3L*          <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.									<3.00														
04/23/2013         7.40J*													1							1			
12/18/2012         16.4JH*																							
0566         08/06/2012         14.91*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <1.10         <1.10         <1.								,			1								1		1	1	
06/07/2012       10.7J*       <3.10J*	0566												İ			1			t	İ		t	
03/16/2012       10.3J*        <3.10J*				•••••••	-								İ						1	İ		1	
12/20/2011         12.4J*          <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.10J*         <3.																							
08/31/2011         16.7J*         <3.10J* </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td>İ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td>İ</td> <td>1</td> <td></td>					1						1	1	İ						1	1	İ	1	
07/08/2011 12.3 12.1					<3.10J*								t						1	t		t	
				12.1								1										1	
		04/07/2010	<10.5		1														1			1	

<table-container>          by betwee         &lt;</table-container>		Sample Port	4	4	С	C1	C2	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
0728014         0.00        0.00        0.00 <t< th=""><th></th><th>Duplicates</th><th></th><th>DUP</th><th></th><th></th><th></th><th>DUP</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		Duplicates		DUP				DUP															
0000001         0.000         <	PW-ID	Sample Date										Sulfol	ane (µg/l)	1									
$ \begin{array}{                                    $		07/29/2014	9.80J	9.00J		<2.40	<2.40		<2.40		1	[							1	1			
$ \begin{array}{                                    $		01/06/2014	7.80J	8.00J		<3.00	<3.00		<3.00														
09102012         9.40/F         00102012         9.40/F         0.410/F <t< td=""><td></td><td>08/06/2013</td><td>5.10J*</td><td></td><td></td><td>&lt;3.10J*</td><td>&lt;3.10J*</td><td></td><td>&lt;3.10J*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		08/06/2013	5.10J*			<3.10J*	<3.10J*		<3.10J*														
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		04/02/2013	4.40J*	ĺ		<3.10J*	<3.10J*		<3.10J*		1	ĺ	ĺ							1	ĺ		
$ \begin{array}{                                    $	0567	09/10/2012	9.40J*			<3.10J*	<3.10J*		<3.10J*		1	[	[						1	1	[	1	
0708201         0.000         <		02/20/2012	7.50J*			<3.10J*	<3.10J*		<3.10J*		1	1	[										
0708201         0.000         <					<3.10J*															-			
0407/300         clos         c        c         c											1	1	1								1		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		04/07/2010	<10.6																				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						<2.40	<2.40		<2.40											-			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $									1														
04/4204         15.9         15.8          200<						<2.40	******		<2.40														
0688         04/19/2013         14.kl*				15.8																			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0568								·		1	1	1								1		
02022012         17.0/*         0         3.10/*         3.10/*         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																							
$ \begin{array}{                                    $			+				*																
04/24/2010         13.0         16.1         v					<3.10J*						1	1	1						1	1	1	1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				16.1																			
0502/0214         15.0          2.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>&lt;2.40</td><td>&lt;2.40</td><td></td><td>&lt;2.40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>						<2.40	<2.40		<2.40														
05/14/2013         13.8.1*				l																1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					1						1	1	1						1	1	1	†	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			<u></u>				*****													1			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0570						÷																
06/82011         14.44"         14.04"         1         2         2         0         2         0         1				l	<5.00.1*	10.1100	101100		101100											1			
01/23/2010     10.6     1																				1			
08/92014         12.8.1*         2.4.01*         2.4.01*         2.4.01*         2.4.01*         0											1					1							
b523/2014         11.1         10.2         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <2.00         <						<2.40J*	<2.40J*		<2.40J*											1			
01/28/2014         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00				10.2							1	1	1							1	1	1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$											1	1	1						1	1	1	1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				8.20J							1												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$									f										1	1		1	
08/14/2012         8.40J*	0586		÷				*******																
03/16/2012         8.20. <sup>1+</sup> <         <         <         <         <         <          <         <         <         <							-													1			
10/11/2011     6.40J*      <									1														
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					<3.10J*																		
04/17/2010         <10.0																			1	1		1	
10/28/2014         10/28/2014         10         10         2.40         2.40         10<											1					1			1	1		1	
09/19/2014         82.8					1	<2.40	<2.40				1	1	1							1	1	1	
07/22/2014         90.5         5.80J         <2.40         <2.40			82.8	[					<2.40										1	1			
06/06/2014         89.7         88.0         <         2.00         <         2.00   <					1				·							1				1			
01/21/2014         89.8         91.6         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00         <3.00				88.0																			
12/31/2013       89.4       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00       <3.00																1				1			
0597 §       08/06/2013       70.7J*        <3.10J*					<3.00				{		İ	İ	İ						t	1	İ	t	
06/27/2013       96.5JL*       <3.10J*	0597 §					<3.10J*	<3.10J*						1								1		
06/06/2013       88.3J*       6.80J*       <3.10J*	Ĩ				<3.10J*						1		1							1	1		
12/07/2012       123J*        <3.10J*       <3.10J*       <3.10J*        <		******				6.80J*	<3.10J*				1					1	1		1	1	1	1	
07/16/2012       111J*        <3.10J*       <3.10J*       <3.10J*       <									{}		1	İ	İ						1	1	İ	1	
10/26/2011 95.5J* <3.10J* <			<u></u>				*****				1												
					<3.10J*						1	1	1			1			1	1	1	1	
		12/30/2009	49.7	İ	1						1	1	1						1		1		

	Sample Port	A	4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)										
	08/04/2014	149			<2.40	<2.40		<2.40		1	1							1	1		1	
	08/12/2013	135J*			<3.10J*	<3.10J*		<3.10J*														
	11/27/2012	192J*				<3.10J*		<3.10J*											1			
0500	06/08/2012	241									1							1		1	1	
0598	04/10/2012	182J*			<3.10J*	<3.10J*		<3.10J*											1			
	10/05/2011	183J*		<3.10J*				<3.10J*														
	04/15/2011	206J*		<5.00J*														1	1	1	1	
	01/07/2010	140																1				
	08/18/2014	116			<2.40	<2.40		<2.40														
	03/14/2014	153	142		<3.00	<3.00		<3.00														
0599	10/25/2013	140	135		<3.10	<3.10		<3.10										1	1	1	1	
	06/10/2013	148J*				<3.10J*		<3.10J*			1	1						1		1	1	
	07/03/2012	241JL*		<3.10J*																		
	09/15/2014	66.4		<2.40				<2.40														
	08/18/2014	70.7			4.40J	4.80J		<2.40										1				
	12/03/2013	62.5			<3.10	<3.10		<3.10														
	08/20/2013	70.1J*				<3.10J*		<3.10J*			1							1	1	1	1	
0606	12/26/2012	58.9J*			<3.10J*	<3.10J*		<3.10J*										1				
	07/10/2012	70.6J*				<3.10J*		<3.10J*											1			
	12/13/2011	58.0J*				<3.10J*		<3.10J*														
	07/13/2011	55.8J*		<0.790J*	40.100	1011100		101100														
	02/28/2010	27.3		1011 000																		
	11/04/2014	110			<2.40	<2.40		<2.40											1			
	09/23/2014	116			<2.40	<2.40		<2.40											1			
	07/14/2014	147	136		<2.40	<2.40		<2.40														
	05/15/2014	184	191	1	<2.00	<2.00		<2.00														
	02/18/2014	216	210J*		<3.00	<3.00		<3.00											1			
0607	12/13/2013	152	158		<3.10	<3.10		<3.10														
	03/11/2013	225J*				<3.10J*		<3.10J*						· · · · · · · · · · · · · · · · · · ·								
	09/15/2012	221J*				<3.10J*		<3.10J*														
	03/27/2012	249J*		<3.10J*	<0.100																	
	02/01/2010	169	134	<0.100																		
	10/31/2014	86.1			<2.40	<2.40	<2.40	<2.40														
	07/08/2014	96.0			<2.40	<2.40	~2.10	<2.40														
	03/14/2014	89.4	100		<3.00	<3.00		<3.00														
	10/21/2013	87.3	88.5		<3.10	<3.10		<3.10														
	06/19/2013	104J*			<3.10J*	<3.10J*		<3.10J*														
0608	01/14/2013	91.7J*				<3.10J*		<3.10J*										1		[	[	
	05/21/2012	108J*			<3.10J*			<3.10J*														
	03/07/2012	97.2J*		1		<3.10J*		<3.10J*											1	İ		
	08/16/2011	87.6J*		<3.10J*														<u> </u>	1	<u> </u>	[	
	03/07/2010	57.8																	1			
	08/29/2014	0.0		1	<2.40	<2.40								+				1	1		1	
	07/21/2014	84.3	82.4		<2.40	4.70J		<2.40										1				
	08/19/2013	82.7JL*	02.1		<3.10J*	<3.10		<3.10														
0609	09/05/2012	99.5J*			<3.10J*		<u> </u>	<3.10J*										<u> </u>	1	<u> </u>		
0000	06/11/2012	94.0J*		1		<3.10J*		<3.10J*			İ							İ	1	<u> </u>	<u> </u>	
	03/12/2012	104J*				<3.10J*		<3.10J*											1			
	09/16/2011	71.1J*		<3.10J*		-0.100		-0.100											1			

	Sample Port	A	4	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DU	P														
PW-ID	Sample Date			•						Sulfo	lane (µg/l)	)									
	08/25/2014	32.8	31.7		<2.40	<2.40	<2.40		1				1		1						
	08/16/2013	28.4J*			<3.10J*	<3.10J*	<3.10J*														
0010	11/30/2012	37.0JH*			<3.10J*	<3.10J*	<3.10J*		1									1		1	
0610	11/28/2011	31.8J*		<3.10J*			<3.10J*		1	1	1							ĺ		ĺ	
	06/01/2011	30.0J*		<0.790J*														1		1	
	03/07/2010	24.3																			
	07/11/2014	114	122		<2.40	<2.40	<2.40														
	02/14/2014	148			<3.00	<3.00	<3.00														
	10/14/2013	115			<3.10	<3.10	<3.10														
	05/03/2013	142J*			<3.10J*	<3.10J*	<3.10J*														
	12/19/2012	176JH*			<3.10J*	<3.10J*	<3.10J*														
0615	08/17/2012	143J*			<3.10J*	<3.10J*	<3.10J*														
	03/16/2012	126J*			<3.10J*	<3.10J*	<3.10J*														
	09/30/2011	121J*		<3.10J*			<3.10J*														
	04/28/2011	116J*		<10.0J*																	
	03/29/2011	120J*																			
	03/04/2010	65.3	60.5																		
	08/22/2014	146			<2.40	<2.40	<2.40		ļ												Ļ
	10/15/2013	143			<3.10	<3.10	<3.10														ļ
0617	11/09/2012	168J*			<3.10J*		<3.10J*		1		1							ļ		ļ	
	02/07/2012	145J*			<3.10J*	<3.10J*	<3.10J*														
	07/20/2011	144J*		<3.10J*					ļ		ļ							ļ		ļ	ļ
	03/04/2010	56.4																ļ		ļ	
	11/17/2014	40.9			<2.40	<2.40	<2.40		ļ								ļ			ļ	ļ
	07/21/2014	56.7			<2.40	<2.40	<2.40														ļ
	02/14/2014	10.2	9.70J		<3.00J*		<3.00											ļ		ļ	ļ
	09/16/2013	33.7			<3.10	<3.10	<3.10		ļ	ļ								ļ		ļ	
0040	05/03/2013	36.6J*			<3.10J*	*******	<3.10J*										ļ	ļ		ļ	ļ
0618	11/02/2012	25.6J*		0.40.1*	<3.10J*	<3.10J"	<3.10J*											1			
	05/21/2012	48.2J*		<3.10J*	0.40.1*	0.40.1*	0.40.1*														
	04/27/2012	39.0J*		-2 10 !*	<3.10J*	<3.10J"	<3.10J*														<sup> </sup>
	11/17/2011	16.0J*		<3.10J*			<3.10J*				-										
	05/19/2011	43.8J*		<5.00J*																	<sup> </sup>
	02/22/2010 04/07/2014	29.5	02.0		-2.00	-2.00	12.00			-											
	12/13/2013	92.8 99.8	93.0		<2.00 <3.10	<2.00 <3.10	<2.00				1										<sup> </sup>
	09/09/2013	99.8 89.5J*			<3.10 <3.10J*		<3.10 <3.10J*		1		1										
	03/29/2013	09.5J 94.8J*			<3.10J <3.10J*		<3.10J*			+											
	08/20/2012	94.6J 66.4J*			<3.10J <3.10J*		<3.10J <3.10J*		1		1				1		-		1		
0620	05/25/2012	58.5J*		<3.10J*	<3.10J	~0.100			1	+	1			+				<u> </u>		<u> </u>	l
	04/30/2012	56.8J*		<3.10J	<3.10J*	<3 10.1*	<3.10J*			1											
	12/13/2012	49.2J*			<3.10J*		<3.10J*		1	+											
	06/13/2011	46.0J*		<0.790J*			<0.100		1	+	1						+				
				\$0.7500					1	1	1				+		1				
	03/08/2010	33.3				L			1	1	1	l		L	1		1	1	1	1	L

	Sample Port	Α	4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfo	ane (µg/l)										
	10/20/2014	7.40J			<2.40	<2.40	<2.40	<2.40		[					1	1			[			
	08/22/2014	7.90J	8.00J		<2.40	<2.40		<2.40								1		1				
	07/01/2014	7.20J	7.20J		<2.40	<2.40		<2.40				1						1				
	04/18/2014	<2.00			<2.00	<2.00		<2.00														
	02/04/2014	<3.00	<3.00		<3.00	<3.00		<3.00J*				1						1				
	11/25/2013	6.80J	6.60J		<3.10	<3.10		<3.10														
	09/23/2013	7.90J	8.30J		<3.10	<3.10		<3.10														
	07/15/2013	8.20J*				<3.10J*		<3.10J*														
	04/29/2013	6.30J*			<3.10J*	<3.10J*		<3.10J*														
0622	01/08/2013	<3.10J*			<3.10J*	<3.10		<3.10J*														
	11/16/2012	8.80J*				<3.10J*		<3.10J*										1				
	09/04/2012	11.2J*				<3.10J*		<3.10J*			1	1						1				
	06/07/2012	9.60J*				<3.10J*		<3.10J*														
	02/20/2012	6.40J*				<3.10J*		<3.10J*				1						1				
	10/13/2011	9.40J*		<3.10J*																		
	08/19/2011	11.4										1						1				
	01/14/2010	<10.6J*																				
	01/04/2010	<10.5										1						1				
	11/18/2014	38.1			<2.40	<2.40	<2.40	<2.40														
	04/22/2014	26.1	23.7		<2.00	<2.00		<2.00								1		1				
	07/08/2013	31.3J*				<3.10J*		<3.10J*				İ						1				
	09/28/2012	35.7J*				<3.10J*		<3.10J*														
0624	05/16/2012	32.6J*		<3.10J*												1						
	04/27/2012	35.1J*			<3.10J*	<3.10J*		<3.10J*										1				
	10/25/2011	28.9J*		<3.10J*				<3.10J*				1						1				
	05/05/2011	29.0J*		<5.00J*			Ì					1						1				
	03/05/2010	16.2										1						1				
	03/28/2014	23.0		<2.00																		
	12/14/2012	32.5J*			<3.10J*	<3.10J*		<3.10J*				1						1				
0625	10/27/2011			<3.10				<3.10				ĺ						1				
	05/10/2011	23.0J*		<5.00J*								[						1				
	03/06/2010	20.1																				
	10/14/2014	147	146		<2.40	<2.40		<2.40														
	06/03/2014	186			<2.40	<2.40		<2.40														
	08/12/2013	153J*			<3.10J*	<3.10J*		<3.10J*														
	11/26/2012	198J*			<3.10J*	<3.10J*		<3.10J*														
0636	04/24/2012	181J*			<3.10J*	<3.10J*		<3.10J*														
	10/11/2011	158J*		<3.10J*																		
	04/26/2011	190J*		<5.00J*																		
	04/21/2011	180J*		<5.00J*																		
	12/17/2009	153JL*	139JL*																			
	05/16/2014	24.6	31.7		<2.00	<2.00		<2.00														
	08/19/2013	65.0J*			<3.10J*	<3.10J*		<3.10J*														
	12/19/2012	87.2JH*			<3.10J*	<3.10J*		<3.10J*														
0646	05/29/2012	87.6J*			<3.10J*	<3.10J*		<3.10J*														
	01/27/2012	81.5J*			<3.10J*	<3.10J*		<3.10J*														
	05/03/2011	84.0J*		<5.00J*																		
	02/13/2010	49.9																				

	Sample Port	-	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)	)									
	09/08/2014	92.3			<2.40	<2.40		<2.40		1	1								1			
	04/04/2014	62.2	69.7		<2.00	<2.00		<2.00														
	11/12/2013	60.4	61.0		<3.10	<3.10		<3.10		1	[							1	[			
	07/15/2013					<3.10J*				1	1							1	1			
00.47	06/21/2013	53.9J*			<3.10J*	22.4J*		<3.10J*			1							1	1			
0647	02/01/2013	43.8J*		<3.10J*														1				
	08/06/2012	43.1J*			<3.10J*	<3.10J*		<3.10J*														
	12/07/2011	35.7J*			<3.10J*			<3.10J*		1	1							1				
	05/12/2011	28.1J*		<5.00J*																		
	02/07/2010	22.4																				
	09/05/2014				<2.40	<2.40				1	1							1				
	06/30/2014	116	114		<10.0	3.70J		<10.0														
	11/22/2013	87.3			<3.10	3.30J		<3.10														
	04/19/2013	87.4J*						<3.10J*														
	12/11/2012	97.6J*			<3.10J*	·		<3.10J*														
0648	08/29/2012	93.9J*			<3.10J*			<3.10J*														
	04/24/2012	76.7J*			<3.10J*			<3.10J*		1	1							1				
	12/08/2011	62.7J*			<3.10J*			<3.10J*														
	07/12/2011	63.7J*		<0.790J*	<0.100	<0.100		<0.100														
	02/09/2010	42.4		<0.7300		L																
	09/11/2014	55.6			<2.40	<2.40		<2.40														
	11/11/2014	42.6	41.9		<3.10	<3.10		<3.10														
	01/21/2013	42.0 31.4J*	41.5		<3.10J*	farmen and the second s		<3.10J*														
0649	03/14/2012	30.5J*			<3.10J*			<3.10J*		1	1							1				
0043	08/11/2012	23.4J*		<3.10J*	<3.105	<3.100		<3.100		<u> </u>	<u> </u>							<u> </u>	<u> </u>			
	03/12/2011	11.8		<3.105					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~													
	02/07/2010	<10.9																				
	06/17/2014	10.9	106		3.70J	<2.40		<2.40														
			106			***************************************																
0651	06/10/2013	52.1J* 68.4J*		-2 10 1*	<3.10J*	<3.10J		<3.10J*														
	11/15/2011			<3.10J*																		
	01/14/2010	36.9JL*	400		0.40	0.40	·····	0.40														
0653	08/22/2014	103	106	0.40	<2.40	<2.40		<2.40														
0055	12/16/2013	87.0	22.0	<3.10																		
	01/16/2010	33.8	33.9		0.40	0.40		0.40														
0656	11/11/2013	97.8		0.40.1*	<3.10	<3.10		<3.10														
0000	11/28/2011	82.5J*		<3.10J*																		
	02/07/2010	47.0			0.40	0.40		0.40		Į								Į	Į			
	09/12/2014	100			<2.40	<2.40		<2.40														
	06/13/2014	99.1JH*	102		<2.40	<2.40		<2.40														
	03/04/2014	86.7			<3.00	<3.00		<3.00														
	12/09/2013	73.9			<3.10	<3.10		<3.10		ļ	ļ							ļ	ļ			
	10/18/2013	72.5	74.6		<3.10	<3.10		<3.10			ļ								ļ			
0657	07/15/2013	81.2J*			<3.10J*			<3.10J*			ļ		ļ					ļ				
	04/19/2013	81.1J*	ļ		<3.10J*			<3.10J*		ļ	ļ			ļ		ļ		ļ	ļ		ļ	
	01/02/2013	70.0J*	ļ		<3.10J*			<3.10J*		ļ	ļ	ļ		ļ				ļ	ļ		ļ	
	10/12/2012	73.8J*			<3.10J*			<3.10J*		ļ	ļ							ļ	ļ			
	07/09/2012	74.8J*			<3.10J*	<3.10J*		<3.10J*		ļ	ļ							ļ	ļ			
	02/17/2012	56.0J*	<u> </u>	<3.10J*						ļ	ļ			ļ				ļ	ļ			
	11/22/2009	39.4								1	1	1				l		1	1		I	

	Sample Port	A	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP	-			DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)										
	11/11/2014	60.8												1	1			1	[			
	08/19/2014	63.4					•															
	06/06/2014	65.1	63.5		<2.00	<2.00		<2.00											1			
	05/28/2014	59.4			< <u>2.00</u>	~£.00		~2.00														
	03/19/2014	58.4																				
	12/03/2013	57.0					•••••															
	09/11/2013	63.7								· · · · ·												
0658	06/21/2013	62.0J*			<3.10J*	-2 10 I*		<3.10J*														
0000		51.1			<3.100	<3.105		<3.105														
	06/12/2013	51.1																				
	02/19/2012	54.0 48.4																				
	03/18/2013				0.40.1*	0.40.1*		0.40.1*											<u> </u>			
	09/18/2012	61.6J*			<3.10J*			<3.10J*														
	12/06/2011	58.3J*		0 700 1*	<10.0J*	<10.0J*		<10.0J*														
	06/14/2011	51.8J*		<0.790J*															<u> </u>			
	02/07/2010	39.0			0.40	a 40																
	09/23/2014				<2.40	<2.40													ļ			
	07/29/2014	88.7			<2.40	4.90J		<2.40														
	05/27/2014	85.4	88.5		<2.00	<2.00		<2.00			ļ										ļ	
	11/26/2013	86.4	81.5		<3.10	<3.10		<3.10			ļ							ļ	ļ		ļ	
	07/09/2013	92.5J*			<3.10J*			<3.10J*											ļ			
0660	02/26/2013	95.0J*			<3.10J*			<3.10J*														
	09/04/2012	121J*			<3.10J*			<3.10J*														
	04/20/2012	115J*			<3.10J*	4.00J*		<3.10J*														
	11/01/2011	107J*		<3.10J*				<3.10J*					ļ	L								
	05/18/2011	107J*		<5.00J*																		
	12/03/2009	45.5																				
	05/31/2012	3.55J																				
0754 †	07/25/2011	<6.20																				
	11/19/2010	<10.3	<10.6																			
	10/28/2014	<2.40			<2.40	<2.40		<2.40														
2199	07/10/2014	<2.40		<2.40																		
	06/02/2014	<5.15																				
	09/08/2014	5.80J			<2.40	<2.40		<2.40														
	04/21/2014	4.80J			<2.00	<2.00		<2.00														
	10/07/2013	6.30J	6.50J		<3.10	<3.10		<3.10					[			l						
	06/07/2013	6.20J*			<3.10J*	<3.10J*		<3.10J*														
0755	12/03/2012	7.70JH*			<3.10J*			<3.10J*														
	10/15/2012	5.70J*			<3.10J*			<3.10J*														
	01/24/2012	6.00J*		<3.10J*							Ì		İ			İ		İ	1		Ì	
	09/06/2011	5.56J			1														1			
	02/10/2011	<11.2																	1			
	06/23/2014	12.4	11.6		<2.40	<2.40		<2.40			1					1		1			1	
	08/30/2013	13.0J*		1	<3.10J*			<3.10J*											İ			
	11/30/2012	12.7J*			<3.10J*			<3.10J*											1			
0757	04/24/2012	9.30J*		<3.10J*															<u> </u>			
	08/19/2012	10.7													1							
	01/06/2011	<14.1		1															<u> </u>			
	01/00/2011	<1 <del>11</del> .1	l	.1	l			I		1	1	L	l	L	1	l		1	1		1	L,

	Sample Port		A	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DUP															
PW-ID	Sample Date									Sulfol	ane (µg/l)	1									
	07/08/2014	21.3	17.7		<2.40	<2.40	<2.40											1			
	12/03/2013	15.7	14.7		<3.10	<3.10	<3.10														
	04/19/2013	17.4J*			<3.10J*	<3.10J*	<3.10J*											1		1	
0758	07/24/2012	17.0J*					<3.10J*		1	1							1			1	
	12/07/2011	13.8J*				<3.10J*	<3.10J*		1	1							1	1		1	
	06/24/2011	13.6J*		<0.790J*					1	1								1		1	
	01/06/2011	11.6																			
	06/10/2014	3.20J	<2.40	+	<2.40	<2.40	<2.40														
	02/06/2014	6.40J	7.80J		<3.00	<3.00	<3.00														
	08/27/2013	5.00J*	7.005		<3.10J*	<3.10J*	<3.10J*		<u> </u>												
0773				-																	
0113	10/23/2012	3.20J*		0.40.1*	<3.10J*	<3.10J*	<3.10J*													Į	
	12/07/2011	3.40J*		<3.10J*		· · · · · ·															
	09/03/2011	3.92J								ļ								ļ		ļ	
	10/30/2010	<10.8																			
	09/26/2014	20.9			<2.40	<2.40	<2.40														
	04/14/2014	20.0			<2.00	<2.00	<2.00														
	02/07/2014	21.3			<3.00	<3.00	<3.00														
	10/15/2013	15.3	16.3		<3.10	<3.10	<3.10														
	06/18/2013	17.2J*			<3.10J*	<3.10J*	<3.10J*														
	01/28/2013	15.2J*			<3.10J*	<3.10J*	<3.10J*														
0929	11/02/2012	16.3J*			<3.10J*	<3.10J*	<3.10J*		1								1			1	
0929	07/20/2012	16.5J*			<3.10J*	<3.10J*	<3.10J*														
	03/13/2012	15.0J*				<3.10J*	<3.10J*		1								1	1		1	
	11/09/2011			13.6J*																	
	11/08/2011	14.0J*	1				<3.10J*		1	1							1	1		1	
	05/24/2011	15.7J*		<5.00J*					1	1							1				
	05/11/2011	11.8J*		101000													1				
	02/27/2010	14.4																			
	07/07/2014	26.8	25.7		<2.40	<2.40	<2.40														
	08/13/2013	20.0J*	20.1		<3.10J*		<3.10J*											1			
	11/09/2012	20.03 21.5J*					<3.10J*														
0931				0.40.1*	<3.10J	<3.10J*	<3.100														
0931	11/09/2011	20.3J*		<3.10J*			0.40.1*		<u> </u>	<u> </u>										<u> </u>	
	11/08/2011			= 00.14			<3.10J*														
	04/15/2011	21.6J*		<5.00J*																	
	02/26/2010	14.7							ļ	I							ļ			ļ	
	11/18/2014	14.2							ļ	ļ							ļ	ļ		ļ	
	09/23/2014	13.8	13.5		<2.40	<2.40	<2.40			ļ										ļ	
	09/11/2014	12.7																			
	05/29/2014	11.7																			
	04/03/2014	9.30J	9.89J																		
	02/24/2014	10.1	10.2		<3.00	<3.00	<3.00														
	11/26/2013	8.80J	9.00J																		
	09/16/2013	8.05J																			
0000	08/06/2013	5.80J*	1		<3.10J*	<3.10J*	<3.10J*														
0932		5.04J	1						İ						1		1	1			
	06/19/2013	6.80J	1			1			1					1	1		1				
	06/18/2013	7.00J*	1	1	<3.10J*	<3.10J*	<3.10J*		İ	t							İ	1		t	
	03/20/2013	5.09J													1			1			
	12/26/2012	<3.10J*			<3 10 1*	<3.10J*	<3.10J*											1			
	07/27/2012	4.60J*		<3.10J*	<b>~</b> 0.100	-0.100	\$3.100														
			3.37J	<3.10J																	
	05/24/2012	<6.32	3.3/J							ļ							ļ	<u>}</u>	ļ	ļ	
	07/14/2011	<6.66	40.4							<u> </u>					l				1	<u> </u>	
L	02/25/2010	<10.0	<10.4			II	I		I	I							I	1	l	I	

	Sample Port	-	A	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP		•.	DUP															
PW-ID	Sample Date					1				Sulfo	ane (µg/l)	)									<u> </u>
	08/12/2014	21.8			<2.40	<2.40	<2.40		1	1					1	1	1	1	1		
	01/10/2014	18.0			<3.00	<3.00	<3.00		1						1						
	05/06/2013	14.6J*				<3.10J*	<3.10J*		1	1	1								1		
	10/23/2012	14.1J*				<3.10J*	<3.10J*		İ	1	1							1	1		
0933	03/13/2012	10.9J*				<3.10J*	<3.10J*		1	1	1						1		1		
	08/23/2011	13.4J*		<3.10J*																	
	07/09/2011	10.8									<u> </u>								<u> </u>		
	02/27/2010	<11.4							1												
	06/30/2014	47.0		<2.40																	
	10/15/2013	30.2		<3.10																	
	06/18/2013	33.5J*		<3.10J*					1												
0936	06/14/2012	21.2J*		<3.10J*					1		1								1		
	06/08/2011	18.2J*		<0.790J*														1		-	
	02/28/2010	14.7																			
	09/02/2014	26.0			<2.40	<2.40	<2.40														
	02/25/2014	21.7	21.1		<3.00	<3.00	<3.00								1						
	09/19/2013	18.2	19.3		<3.10	<3.10	<3.10		1	1	1						1	1	1	1	
	04/15/2013	17.3J*			<3.10J*		<3.10J*		1												
0007	10/08/2012	16.6J*				<3.10J*	<3.10J*														
0937	05/22/2012	15.5J*	l		<3.10J*		<3.10J*								1						
	02/08/2012	15.3J*			<3.10J*		<3.10J*		1	1	1					1		1	İ	1	
	09/07/2011	14.2J*		<3.10J*						1					1						
	07/08/2011	14.6													1						
	02/26/2010	<10.5							1	1	1							1	1		
	07/22/2014	12.0	12.4		<2.40	<2.40	<2.40		1	1	1							1	1	1	
	03/04/2014	10.2	10.5		<3.00	<3.00	<3.00		1	1	1							1	1		
	11/05/2013	10.2			<3.10	<3.10	<3.10		1												
	03/18/2013	8.90J*			<3.10J*		<3.10J*														
0938	02/07/2013	9.00J*	1	<3.10J*						1											
	06/04/2012	8.20J*	1		<3.10J*	<3.10J*	<3.10J*		1		1							1	1		
	11/18/2011	8.40J*		<3.10J*					1	1	1							1	1	1	
	07/11/2011	9.02J													1						
	03/02/2010	<10.3																			
	04/03/2014	30.3		<2.00					1		1								1		
0940	01/28/2013	20.6J*			<3.10J*	<3.10J*	<3.10J*														
0940	10/11/2011	19.5J*		<3.10J*																	
	02/26/2010	15.1	15.6																		
	07/14/2014	50.0			2.80J	<2.40	<2.40														
	02/24/2014	44.0			<3.00	<3.00	<3.00														
	10/08/2013	39.5	37.3		<3.10	<3.10	<3.10				[								[		
0942	05/13/2013	40.5J*			3.70J*		<3.10J*														
0942	04/20/2012	30.2J*				<3.10J*	<3.10J*														
	10/05/2011	24.7J*		<3.10J*			<3.10J*				[							1	[		
	05/06/2011	26.3J*		<5.00J*																	
	02/26/2010	17.0							1												

	Sample Port	ŀ	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l)										
	11/04/2014	40.6								1	1								1		1	
	08/19/2014	35.3																				
	06/04/2014	33.9	·····								1							1		1	1	
	05/13/2014	36.1	37.5		2.40J	<2.00		<2.00		1	1								1	1	İ	
	03/03/2014	32.9								1	1							1		1	1	
	11/26/2013	29.6	·····																			
	10/12/2013	26.5	26.1		<3.10	<3.10		<3.10												<u> </u>		
	09/11/2013	30.3																				
0943		25.8	25.6																			
	06/06/2013	24.4												-								
	04/19/2013	25.1J*			<3 10.1*	<3.10J*		<3.10J*		1								1	1			
	03/12/2013	25.7			101100	101100		101100														
	01/02/2013	23.8J*			<3 10.1*	<3.10J*		<3.10J*														
	09/21/2012	25.0J*				<3.10J*		<3.10J*														
	04/11/2012	21.4J*		<3.10J*	40.100	101100		101100														
	10/03/2011	21.4		101100																		
	03/07/2010	<10.0								1								1	1			
	11/17/2014	26.2			<2.40	<2.40		<2.40														
	05/12/2014	19.5	19.7		<2.00	<2.00		<2.00														
	12/13/2013	18.4	19.7		<3.10	<3.10		<3.10														
	07/23/2013	18.4J*				<3.10J*		<3.10J*														
	06/05/2013	15.8J*				<3.10J*		<3.10J*														
0944	02/18/2013	14.3J*			<3.10J*	<3.10J*		<3.10J*														
	08/17/2012	19.7J*				<3.10J*		<3.10J*														
	04/05/2012	15.5J*				<3.10J*		<3.10J*														
	10/27/2011	17.8J*		<3.10J*	<0.100			<0.100														
	09/07/2011	18.4		\$0.100																1	1	
	03/05/2010	<10.5										1										
	08/04/2014	15.4	15.9		<2.40	<2.40		<2.40														
	06/17/2014	14.3	10.0		<2.40	<2.40		<2.40														
	11/22/2013	9.60J	10.1		<3.10	<3.10		<3.10														
0945	10/19/2012	9.40J*	10.1		<3.10J*	<3.10J*		<3.10J*														
0010	10/21/2011	8.70J*		<3.10J*	<0.100	<b>NO.100</b>		<0.100														
	07/25/2011	7.01J		<0.100																		
	02/26/2010	<10.6																				
	10/04/2014	30.8	29.0		<2.40	<2.40		<2.40														
	09/21/2013	22.3	24.0		<3.10	<3.10		<3.10J*														
0946	12/10/2011	17.5J*	24.0		<3.10J*	<3.10J*		<3.10J*														
0010	06/20/2011	18.7J*		<0.790J*	<0.100	<b>NO.100</b>		<0.100														
	03/19/2010	18.3		<0.7303																		
	04/21/2014	13.4	11.3		<2.00	<2.00		<2.00												<u> </u>		
	09/17/2013	11.0	11.3		<3.10	<3.10		<3.10														
	01/25/2013	10.2J*	14.1			<3.10J*		<3.10J*														
0947	06/12/2012	10.2J 10.4J*				<3.10J*		<3.10J*		<u> </u>		1						1		<u> </u>		
0.047	10/05/2012	9.90J*		<3.10J*	<3.10J	~0.100		<u></u>											<u> </u>			
	05/26/2011	9.08J		~0.100																		
	02/11/2010	<10.4																	+	<u> </u>	<u> </u>	
	09/22/2014	14.2	14.3		<2.40	<2.40		<2.40	1									+	+			
	09/17/2013	14.2	14.0	+	<3.10	<3.10		<3.10						+	+			+	+			
0948	10/19/2011	9.00J*		<3.10J*	<3.10	<3.10		<3.10					l 									1
0340	05/26/2011	9.00J 9.44J		<3.10J										+								
	02/11/2010	9.44J <10.0												+					<u> </u>	<u> </u>	<u> </u>	
	02/11/2010	<10.0		1						1	l							1	1	1	<u> </u>	<u> </u>

	Sample Port	A	4	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DL													· · -		
PW-ID	Sample Date		20.		1		<u> </u>			Sulfo	lane (µg/l)	)									
	05/27/2014	64.4	65.6		<2.00	<2.00	<2.00	1	1	1	(-3-)		1	1	1		1	1	1	1	
	11/11/2013	72.5	71.0		<3.10	<3.10	<3.10	1		1											
	06/24/2013	101J*	11.0			<3.10J*	<3.10J*	1		1											
	01/22/2013	86.8J*				<3.10J*	<3.10J*	1		1											
0988	09/10/2012	125J*				<3.10J*	<3.10J*	1		1											
0000	04/20/2012	145J*				<3.10J*	<3.10J*	1		1											
	12/09/2011	146J*				<3.10J*	<3.10J*														
	07/12/2011	164J*		<0.790J*	<0.100	<0.100	<0.100	1													
	02/07/2010	157		<0.7303					-												
	09/26/2014	7.40J	7.80J		<2.40	<2.40	<2.40														
	05/19/2014	9.40J	9.30J		<2.40	<2.40	<2.40														
	11/12/2013	9.40J 9.10J	9.30J 9.80J	+	<3.10	<3.10	<3.10		1									<b> </b>			
			9.000																		
0996	07/09/2013	10.9J*				<3.10J*	<3.10J*														
0996	01/07/2013	12.1J* 14.2J*				<3.10J*	<3.10J*														
	07/11/2012					<3.10J*	<3.10J*														
	12/02/2011	14.2J*		0 700 1*	<3.10J	<3.10J*	<3.10J*				Į							ļ	Į	<u> </u>	
	06/15/2011	15.0J*		<0.790J*																	
	03/11/2010	16.7			0.40	0.40															
	07/28/2014	4.10J			<2.40	<2.40	<2.40	ļ		ļ	ļ						ļ	ļ	<u> </u>		ļ
0007.0	08/12/2013	<3.10J*		0.40.1*	<3.10J <sup>*</sup>	<3.10J*	<3.10J*														
0997 §	11/01/2011	4.80J*		<3.10J*						<u> </u>											
	07/08/2011	4.06J								ļ								ļ			
	02/26/2010	<10.4								ļ								ļ			
	06/20/2014				<2.40	<2.40		ļ	ļ	ļ	ļ						ļ	ļ	ļ		
	05/13/2014	97.3			<2.00	2.10J	<2.00	ļ		ļ										ļ	
	10/07/2013	85.7	88.8		<3.10	<3.10	<3.10	Į		Į	Į						ļ	Į	ļ	Į	
1086	04/02/2013	92.5J*				<3.10J*	<3.10J*	ļ		ļ	ļ								ļ		
	10/05/2012	89.0J*				<3.10J*	<3.10J*	ļ		ļ	ļ						ļ	ļ	ļ		
	02/17/2012	83.6J*			5.10J*	<3.10J*	<3.10J*	ļ		ļ	ļ						L	Į	L	ļ	
	08/09/2011	87.6J*		<3.10J*				ļ		ļ	ļ				ļ	ļ	ļ	ļ	ļ	ļ	
	03/06/2010	46.8																			
	09/29/2014	201	204		<2.40	<2.40	<2.40	<u> </u>		ļ								ļ			
	05/15/2014	282			<2.00	<2.00	<2.00				ļ	ļ					ļ	ļ	ļ	1	
	09/30/2013	288			<3.10	<3.10	<3.10	1		1							I				
1095	05/21/2013	346J*			<3.10J*		<3.10J*	1	1	1	1						1	ļ	1	1	
	11/27/2012	463J*				<3.10J*	<3.10J*	1	1	1											
	07/11/2012	421J*			<3.10J*	<3.10J*	<3.10J*			1										1	
	07/21/2011	402J*		<3.10J*				1		1										-	
	01/04/2010	117								1								L		1	
	07/29/2013	296J*			<3.10J*	<3.10J*	<3.10J*	1													
1096	12/15/2011	348J*			<3.10J*	<3.10J*	<3.10J*	1										1			
1030	07/20/2011	440J*		<3.10J*																	
	06/06/2011	327						1	1	1								1		1	
	07/11/2014	245			<2.40	<2.40	<2.40														
	12/20/2013	278	273		<3.00	<3.00	<3.00	1	1	1								]			
1097	05/20/2013	353J*			<3.10J*	<3.10J*	<3.10J*	1													
	11/02/2012	358J*		<3.10J*				1	1	1	1							1	1	1	
	01/07/2010	87.0	98.9					1		1								1			

	Sample Port	4	4	С	C1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DUP															
PW-ID	Sample Date									Sulfol	ane (µg/l)										
	11/18/2014	91.5	89.8															1			
	08/26/2014	101			<2.40	<2.40	<2.40														
	08/18/2014	94.4															1				
	06/02/2014	96.8															1	1		1	
	03/24/2014	94.9															[	1			
	03/03/2014	99.5			<3.00	<3.00	<3.00										1				
1000	12/02/2013	113																			
1099	09/26/2013	97.2	104																		
	09/24/2013	91.5	89.6		<3.10	<3.10	<3.10														
	06/04/2013	97.4																			
	00/04/2013	103																			
	03/12/2013	107	105																		
	03/01/2013	98.9J*			<3.10J*	<3.10J*	<3.10J*														
	09/10/2012	96.8J*		<3.10J*																	
	05/15/2014	196	210		<2.00	<2.00	<2.00														
	09/06/2013	238J*			<3.10J*	<3.10J*	<3.10J*														
1100	02/04/2013	267J*			<3.10J*	<3.10J*	<3.10J*														
	08/23/2012	313J*		<3.10J*																	
	05/24/2010	185																			
	06/30/2014	25.9	24.9		<2.40	<2.40	<2.40														
	08/26/2013	16.7J*			<3.10J*	<3.10J*	<3.10J*														
	05/01/2013	<3.10J*			<3.10J*	<3.10J*	<3.10J*														
1101	10/15/2012	16.1J*			<3.10J*	<3.10J*	<3.10J*														
	05/02/2012	13.2J*		<3.10J*																	
	09/02/2011	15.1																			
	02/27/2010	<11.4	<10.0																		
	06/23/2014	44.1			3.50J	<2.40	<2.40														
	01/10/2014	40.1	41.3		<3.00	<3.00	<3.00														
1103	08/26/2013	30.3J*			<3.10J*	<3.10J*	<3.10J*														
	04/09/2013	26.0J*			<3.10J*	<3.10J*	<3.10J*										ļ				
	08/07/2012	28.8J*		<3.10J*																	
	11/10/2014	63.9			<2.40	<2.40	<2.40														
1104	11/25/2013	52.7	49.5		<3.10	<3.10	<3.10														
1104	05/08/2012	40.9J*		<3.10J*																	
	02/27/2010	27.3																			
	09/08/2014	7.40J	7.10J		<2.40	<2.40	<2.40														
	11/12/2013	7.90J			<3.10	<3.10	<3.10														
	08/01/2013	6.10J*			<3.10J*	<3.10J*	<3.10J*														
1105	05/10/2013	7.90J*			<3.10J*		<3.10J*														
	11/14/2012	6.20J*			<3.10J*	<3.10J*	<3.10J*														
	05/11/2012	7.30J*		<3.10J*	1										ļ		ļ			ļ	
	09/02/2011	6.72J															ļ			Į	
-	03/27/2010	<10.3			-					ļ							ļ		ļ	ļ	
	06/16/2014	9.20J			<2.40	<2.40	<2.40								ļ					ļ	
1106 §	01/06/2014	10.4		<3.00		ļ								ļ	ļ		ļ	ļ		ļ	
	02/24/2010	10.6															ļ	1		ļ	
	08/26/2014	22.0	21.4		<2.40	<2.40	<2.40			ļ					ļ				ļ		
	06/16/2014	26.5	25.0		<2.40	<2.40	<2.40										ļ	ļ		ļ	
1107 §	02/28/2014	27.1			<3.00	<3.00	<3.00										ļ	<u> </u>		L	
	12/20/2013	24.3	ļ	<3.10						ļ				ļ	ļ		ļ	ļ		ļ	
	08/24/2011	13.4	<u> </u>							ļ				ļ			ļ	Į	ļ	ļ	
	02/24/2010	<10.4																1		1	

Dup           PW-ID         Sam           11/'         08/'           1108 §         04/2           01/2         02/2           02/2         02/2           01/2         02/2           02/2         02/2           03/2         06/0           03/2         09/2           04/2         09/2           05/2         09/2           06/0         03/2           09/2         08/2           06/0         03/2	Imple Port         Imple Port           uplicates         mple Date           //11/2014         //11/2014           //12/2014         //25/2010           //25/2010         //25/2014           //25/2014         //25/2014           //16/2014         //16/2014           //16/2014         //16/2014           //18/2014         //17/2013           //09/2013         //09/2013           //09/2013         //09/2013           //05/2013         -//05/2013	58.7           63.8           54.4           59.1           19.3           22.6           28.9           25.7           25.5           28.2           27.3           26.2           23.2J*	63.3 63.3 26.8	<3.00	<2.40 <2.40 <2.00 <2.40	<2.40 <2.40 <2.00 <2.40	DUP	D <2.40 <2.40 <2.00 <2.00	D1	D2	Sulfol	1-С1 ane (µg/l)	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
PW-ID         Sam           11/2         08/2           1108 §         04/2           01/2         01/2           02/2         11/2           09/2         08/2           06/2         08/2           09/2         08/2           06/2         08/2           06/2         08/2           06/2         08/2           06/2         08/2           06/2         08/2	nple Date           /11/2014           /11/2014           //21/2014           //21/2014           //25/2010           /25/2010           /25/2014           //25/2014           //25/2014           //21/2014           //21/2014           //21/2014           //16/2014           //17/2013           //09/2013           //09/2013	63.8           54.4           59.1           19.3           22.6           28.9           25.5           28.2           27.3           26.2	63.3	<3.00	<2.40 <2.00	<2.40 <2.00		<2.40 <2.00			Sulfo	ane (µg/l)										
1108 § 04/2 01/2 02/2 09/2 08/2 08/2 08/2 06/0 03/2 1109 08/2 06/0 08/2 06/0 08/2 06/0 08/2 09/2 08/2 09/2 08/2 09/2 08/2 09/2 08/2 09/2 08/2 09/2 08/2 09/2 08/2 09/2 08/2 09/2 09/2 08/2 09/2 09/2 09/2 09/2 09/2 09/2 09/2 09	/11/2014 //15/2014 //21/2014 //22/2014 //25/2010 /25/2014 //25/2014 //16/2014 //16/2014 //18/2014 //18/2014 //17/2013 //09/2013 //09/2013	63.8           54.4           59.1           19.3           22.6           28.9           25.5           28.2           27.3           26.2		<3.00	<2.40 <2.00	<2.40 <2.00		<2.40 <2.00														
1108 § 08/ 1108 § 04/2 01/2 02/2 09/2 08/2 06/2 03/2 11/2 1109 09/2 08/2 06/2 06/2 03/2	½15/2014           ½21/2014           ½22/2014           ½25/2010           ½25/2014           ½25/2014           ½16/2014           ½21/2014           ½32/2014           ½16/2014           ½17/2014           ½17/2013           ½09/2013	63.8           54.4           59.1           19.3           22.6           28.9           25.5           28.2           27.3           26.2		<3.00	<2.40 <2.00	<2.40 <2.00		<2.40 <2.00														
1108 § 04/2 01/2 02/2 11/2 08/2 08/2 06/2 1109 09/2 1109 09/2 08/2 06/2	V21/2014 /22/2014 /25/2010 /25/2014 V16/2014 V16/2014 V21/2014 V3/21/2014 V18/2014 V18/2014 V17/2013 V09/2013 V09/2013	54.4         59.1         19.3         22.6         28.9         25.7         25.5         28.2         27.3         26.2		<3.00	<2.00	<2.00		<2.00														
01/2 02/2 11/2 09/2 08/2 06// 03/2 1109 09/( 08/0 06// 03/2	/22/2014 //25/2010 /25/2014 //16/2014 //16/2014 //21/2014 //18/2014 //17/2013 //09/2013 //09/2013	59.1         19.3         22.6         28.9         25.7         25.5         28.2         27.3         26.2	26.8	<3.00																		
02/2 11/2 09/* 08/2 06/( 03/* 12/* 1109 08/( 06/( 03/* 06/( 03/* 08/2 09/* 09/* 08/2 09/* 09/* 09/* 08/2 06/( 03/*) 08/( 06/( 03/*) 08/( 03/*) 08/( 03/*) 08/( 03/*) 08/( 03/*) 08/( 03/*) 03/* 0 0 0 0 0 0 0 0 0 0 0 0 0	2/25/2010 /25/2014 //16/2014 /21/2014 /21/2014 /21/2014 /18/2014 /17/2013 //09/2013 //09/2013	19.3         22.6         28.9         25.7         25.5         28.2         27.3         26.2	26.8		<2.40	<2.40		<2.40														
11/2 09/* 08/2 06/( 03/* 12/* 1109 09/( 08/( 06/( 03/*	/25/2014 /16/2014 /21/2014 /03/2014 /18/2014 /17/2013 /09/2013 /09/2013	22.6 28.9 25.7 25.5 28.2 27.3 26.2	26.8		<2.40	<2.40		<2.40										1			(	
09/ 08/2 06/( 03/ 12/ 1109 09/( 08/( 06/( 03/	0/16/2014 0/21/2014 0/03/2014 0/18/2014 0/17/2013 0/09/2013 0/09/2013	28.9 25.7 25.5 28.2 27.3 26.2	26.8		<2.40	<2.40		<2.40		2	£											
08/2 06/0 03/ 12/ 1109 09/0 08/0 06/0 03/*	3/21/2014 5/03/2014 2/17/2013 2/09/2013 3/09/2013	25.7 25.5 28.2 27.3 26.2								1												
06/( 03/* 12/* 1109 09/( 08/( 06/( 03/*	5/03/2014 5/18/2014 2/17/2013 5/09/2013 5/09/2013	25.5 28.2 27.3 26.2																				
03/ 12/ 1109 09/( 08/( 06/( 03/	2/18/2014 2/17/2013 2/09/2013 3/09/2013	28.2 27.3 26.2																				
1109 1109 08/0 06/0 03/ <sup>2</sup>	2/17/2013 0/09/2013 0/09/2013	27.3 26.2																				
1109 08/0 06/0 03/ <sup>2</sup>	0/09/2013 0/09/2013	26.2			1																	
08/0 06/0 03/*	8/09/2013																					
06/0 03/		20.20	-		<3.10J*	<3 10.1*		<3.10J*														
03/2	6/05/2013	25.6						30.100														
		26.5																				
	3/13/2013	24.6																				
	5/01/2012	20.6J*		<3.10J*																		
	8/29/2011	18.3		\$0.100										•••••								
	2/27/2010	<11.4																				
	/05/2014	5.70J	5.20J		<2.40	<2.40		<2.40														
08/	8/19/2013	4.70J*	0.200		<3.10J*			<3.10J*														
	8/15/2012	5.20J*		<3.10J*																		
	/27/2012	4.31J							~~~~~													
	/23/2012	28.9	25.7																			
	/18/2014	51.7	2011		4.70J	<2.40		<2.40														
	2/10/2014	50.0JL*	49.4JL*		<3.00J*			<3.00J*														
	/16/2013	42.4	40.6		<3.10	<3.10		<3.10														
03/0	8/05/2013	39.4J*	1010		<3.10J*			<3.10J*														
1114	8/07/2012	40.1J*			<3.10J*			<3.10J*														
	2/01/2011	35.4J*			<3.10J*			<3.10J*														
	/27/2011	40.7J*		<3.10J*																		
	2/25/2010	22.2																				
	/14/2014	30.8			<2.40	<2.40	<2 40	<2.40														
	6/17/2014	33.4	27.1		<2.40	<2.40		<2.40														
12/	2/16/2013	26.5			<3.10	<3.10		<3.10														
	/08/2013	27.3J*			<3.10J*			<3.10J*														
	6/12/2012	26.1J*		<3.10J*																		
	5/21/2010	20.8	23.2									1										
	/30/2014	12.3			<2.40	<2.40		<2.40		1								1				<b> </b>
	/15/2014	9.90J			<2.00	<2.00		<2.00														
	/31/2014	10.5			<3.00	<3.00		<3.00														
	8/12/2013	12.0J*			<3.10J*			<3.10J*		1	1							1	1			·
11/	/13/2012	7.40J*			<3.10J*			<3.10J*				İ										
1118	8/07/2012	8.20J*			<3.10J*			<3.10J*														
	/13/2012	8.70J*			<3.10J*			<3.10J*														
	/28/2011	7.80J*		<3.10J*						1	1	1						1	1			
	//08/2011	8.63J										t										
	/09/2010	<10.0																1				

	Sample Port		4	С	C1	C	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfol	ane (µg/l	)									
	11/18/2014								1	1	<2.40			1				1	1	1		
	11/04/2014	169												1								
	11/03/2014	174										<2.40	2.50J	1	<2.40	<2.40			1	<2.40	<2.40	
	00/05/00//	193								1	<2.40									<2.40	<2.40	
	08/25/2014																				<2.40	
	08/18/2014	180																				
	05/28/2014	181								1	1	1							1			
	04/11/2014	190	190									2.90J	<2.00		8.70J	<2.00			1	<2.00	<2.00	
	03/10/2014	173																				
	03/07/2014	184									<3.00			3.60J						<3.00	<3.00	
	12/13/2013	156									<3.10	l		<3.10						<3.10	<3.10	
	11/25/2013	173																				
1155 §	09/11/2013	170												-								
1100 3	09/02/2013	144JL*							1		<3.10J*			<3.10J*				1		<3.10J*	~3 10 1*	
	06/10/2013	163J*									<3.10J*			<3.10J*						<3.10J*		
		166									<3.103		-	<3.100						<3.100	<3.103	
	06/05/2013	159																	1	1		
	04/26/2013	155J*										~2 10 1*	<3.10J*		-2 10 l*	<3.10J*				<3.10J*	-2 10 1*	
	03/18/2013	162										<3.10J	<3.103		<3.100	<3.103				<3.103	<3.105	
	03/01/2013	162 143J*									<3.10J*			<3.10J*						<3.10J*	-2 10 1*	
	09/12/2012	143J 151J*								1				<3.10J <10.0J*							ç	
											<10.0J*	0.40.1*	2 40 1*	<10.0J	0.40.1*	0.40.1*				<10.0J*		
	07/10/2012	146J*			0.40.1*	2 40 1*			0.40.1*	0.40.1*		<3.10J	<3.10J*		<3.10J*	<3.10J				<3.10J*	<3.10J	
	04/09/2012	143J*				<3.10J*			<3.10J	<3.10J*												
	10/20/2011	118J*			<3.10J*	<3.10J																
	02/13/2010	55.4			-2.40	-2.40	-2.40	-2.40						+	+							
	10/31/2014 09/08/2014	15.1 16.0	16.6		<2.40 <2.40	<2.40 <2.40	<2.40	<2.40 <2.40														
	07/21/2014	15.6	15.9		<2.40	<2.40		<2.40														
					<2.40						+											
	05/13/2014	15.1	15.1			<2.00		<2.00						1					1			
	02/04/2014	18.3			<3.00	<3.00		<3.00														
	09/20/2013	13.3			<3.10	<3.10		<3.10														
	07/16/2013	10.9J*			<3.10J*			<3.10J*	-	<u> </u>										-		
1186 §	04/19/2013	7.60J*			<3.10J*			<3.10J*		ļ									ļ			
	02/05/2013	13.0J*			<3.10J*			<3.10J*														
	12/04/2012	20.8JH*			<3.10J*			<3.10J*														
	08/20/2012	15.9J*			<3.10J*			<3.10J*														
	04/13/2012	15.2J*		0.40.14	<3.10J*	<3.10J"		<3.10J*											ļ	ļ		
	12/14/2011	15.7J*		<3.10J*																-		
	08/31/2011	16.3																				
	05/10/2010	<10.5								<b> </b>		<b> </b>										
	04/18/2010	<10.0J*	<u> </u>		0.00	0.00		0.00		ļ		ļ	+	ļ					<u> </u>	1	ļ	
	04/07/2014	8.50J		0.40	<2.00	<2.00		<2.00		ļ		<b> </b>										
	11/08/2013			<3.10				<3.10		ļ		ļ							ļ			
	09/16/2013	6.60J	6.60J		<3.10	<3.10		<3.10		ļ	<u> </u>	<b> </b>							Į	1		
1190	01/30/2013	6.20J*	ļ		<3.10J*			<3.10J*	ļ	ļ		ļ		ļ				ļ	ļ	ļ		
	06/26/2012	7.10J*			<3.10J*	<3.10J*		<3.10J*	<u> </u>	<u> </u>		ļ						ļ	<u> </u>	<u> </u>		
	10/27/2011	6.00J*		<3.10J*						ļ		ļ							<u> </u>	1		
	08/29/2011	5.92J				ļ				ļ		ļ						ļ	ļ			
	04/15/2010	<10.0							1	1	1	1	1	1	1			1	1	1	۱ <u>ا</u>	

	Sample Port	ŀ	4	С	C1	C2	2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP							-								
PW-ID	Sample Date										Sulfol	ane (µg/l)	1									
	07/28/2014	3.90J	4.10J		<2.40	<2.40	1	<2.40		1	1							1	1		1	
	02/10/2014	<3.00J*	<3.00J*		<3.00J*	<3.00J*		<3.00J*														
	08/27/2013	4.60J*				<3.10J*		<3.10J*		1		1						1		1	1	
1276	02/28/2013	<3.10J*				<3.10J*		<3.10J*		1		1							1		İ	
	07/17/2012	6.50J*			<3.10J*					1		1						1			1	
	08/29/2011	5.47J																				
	04/13/2010	<10.0																				
	10/27/2014	162			<2.40	<2.40	<2.40	<2.40														
	12/09/2013	162	174		<3.10	<3.10		<3.10														
	07/02/2013	168J*			<3.10J*			<3.10J*														
	12/07/2012	188J*				<3.10J*		<3.10J*														
1314	05/04/2012	141J*				<3.10J*		<3.10J*														
-	11/07/2011	119J*	······	<3.10J*	40.100	40.100		<3.10J*														
	05/12/2011	94.8J*		<5.00J*				401100														
	04/19/2011	101JL*		<5.00J*																		
	03/09/2010	69.7																				
	10/21/2014	191			<2.40	<2.40	<2 40	<2.40										1	1	1		
	08/08/2014	157	157		<2.40	<2.40	~2.10	<2.40														
	03/10/2014	164	107		<3.00	<3.00		<3.00														
	11/08/2013	169	174		<3.10	<3.10		<3.10														
	07/15/2013	147J*				<3.10J*		<3.10J*														
	04/01/2013	189J*				<3.10J*		<3.10J*														
1315	11/23/2012	1000		<3.10	<0.100	<b>\0.100</b>		<0.100														
1010	11/09/2012	78.0J*		\$0.10	<3.10J*	63.0.1*		<3.10J*														
	07/18/2012	129J*				<3.10J*		<3.10J*														
	02/28/2012	118J*				<3.10J*		<3.10J*														
	09/15/2011	49.8J*		<3.10J*	40.100	\$0.100		<3.10J*		1		1									1	
	04/05/2011	110		<5.00						1	1											
	03/06/2010	72.0		-0.00																		
	05/21/2014	140	143		<2.00	<2.00		<2.00														
	05/20/2013	118J*			<3.10J*	<3.10J*		<3.10J*														
	12/17/2012	120J*			8.60J*	<3.10J*		<3.10J*														
	06/28/2012	1200 107J*			<3.10J*			<3.10J*														
1374	01/23/2012	96.1J*			<3.10J*			<3.10J*														
	09/14/2011	66.8J*		<3.10J*	\$0.100	\$0.100		<3.10J*														
	05/18/2011	76.3J*		<5.00J*				\$0.100												-		
	03/04/2010	51.0		-0.000						1	1	1			1			1	1	1	1	
	10/17/2014	124			<2.40	<2.40	<2 40	<2.40		1		t			1			1	1	1	t	
	02/11/2014	105	·		<3.00	<3.00	10	<3.00				1		i ·					<u> </u>	1		
	05/10/2013	92.1J*			<3.10J*	<3.10J*		<3.10J*										1	<u> </u>	ŀ	<u> </u>	
	06/26/2012	83.6J*			<3.10J*			<3.10J*														
1375	01/23/2012	79.7J*				<3.10J*		<3.10J*		<u> </u>								1	1	1		
	09/22/2012	63.8J*		<3.10J*						1					† • • • • • • • • • • • • • • • • • • •			1	<u> </u>	t	1	
	05/18/2011	60.7J*		<5.00J*																		
	03/06/2010	42.7		.0.000																		
	02/18/2013	20.6J*			<3 10.1*	<3.10J*		<3.10J*				<u> </u>						1		1		
	09/28/2012	22.6J*				<3.10J*		<3.10J*										1				
	04/19/2012	22.0J 22.7J*				<3.10J*		<3.10J*														
1394	11/09/2011	22.1J*		<3.10J*		-0.100													+	+		
	09/07/2011	23.9		-0.100			1			<u> </u>												
	04/18/2010	<10.0J*																				
	04/10/2010	<10.0J	L	l	L	L	L	I		1	1	l	L	L	L	L	L	1	1	1	<u>{</u>	I

	Sample Port	4	4	C 0	:1	C2	D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP			DUP															
PW-ID	Sample Date									Sulfo	lane (µg/l	)									
	09/19/2014	28.4						1	1	<2.40			<2.40				1	1	<2.40	<2.40	
	05/21/2014	25.8								1	<2.00	<2.00		<2.00	<2.00				<2.00	<2.00	
	02/14/2014	26.3	27.0							1	<3.00	<3.00		<3.00	<3.00			1	<3.00	<3.00	
	12/13/2013	24.2	1					1		<3.10			<3.10						<3.10	<3.10	
	09/03/2013	28.0JL*						1	1	<3.10J*			<3.10J*				1		<3.10J*		
1395 §	06/10/2013	24.0J*							1		<3.10J*			<3.10J*					<3.10J*		
	05/14/2013	25.7J*								1		<3.10J*			<3.10J*					<3.10J*	
	03/15/2013	29.4J*								<3.10J*	101100	101100	<3.10J*						10.100	10.100	
	05/10/2010	20.0								101100			101100						-	1	
	04/09/2010	<10.6																			
	07/25/2014	<2.40	<2.40	-2	.40 <2	40	<2.40			1								1		1	
	11/05/2013	<3.10	<3.10		.10 <3		<3.10	1		1										1	
	03/05/2013	<3.10J*			10J* <3.		<3.10J*													-	
1404	07/13/2012	<3.10J*			100 <0. 10J* <3.		<3.10J*		1	1	1								1	1	
	06/29/2011	<0.790J*		<0.790J*	100 <0.	00	<b>1 3</b> .100														{I
	11/14/2009	3.26J	4.00J	<0.7 505																	
	09/15/2014	<2.40	<2.40	-2	.40 <2	40	<2.40		1	+	1						+	+	+	1	
	11/25/2013	<3.10	~2.40		.40 <2		<3.10														
	03/12/2013	<3.10J*			10J* <3.1		<3.10J*														
1406	05/22/2012	<3.100			100 <3. 10J* <3.		<3.10J*		+								+	+		+	
1100	09/07/2011	3.50J*		<3.10J*	100 <0.	00	3.100											-			
	07/26/2011	3.44J		<3.105																	
	02/27/2010	<10.5																			
	01/14/2014	<3.00		-3	.00 <3	00	<3.00						1								
	08/05/2013	<3.10J*			.00 <3 10J* <3.1		<3.10J*														
	10/19/2012	<3.10J*			10J* <3.1		<3.10J*														
1407	12/27/2011	<3.10J*			10J* <3.1		<3.10J*														
	06/28/2011	<0.790J*		<0.790J*	100 <3.	00	<3.100						1								
	11/13/2009	9.04J		<0.7 500									+						+	1	
	06/10/2014	<2.40		-2	.40 <2	40	2.40J*										+	+			
	08/16/2013	<3.10J*			10J* <3.1	****	<3.10J*											+	+		
	10/16/2012	<3.100 <3.10J*			100 <3. 10J* <3.		<3.10J*														
1408	11/18/2011	<3.10J*		<3.10J*	100 \(\\)	00	<3.10J*														
	05/25/2011	<5.00J*		<5.00J*			<3.100														
	11/14/2009	4.46J		<3.000																	
	08/29/2014	30.1	30.3	-2	.40 <2	40	<2.40		-												
	01/13/2014	28.6	28.6		.40 <2		<3.00														
1435	04/02/2013	27.3J*	20.0		.00 <3 10J* <3.1		<3.10J*													1	
1100	03/20/2012	27.9J*		<3.10J*	100 <3.	00	<3.100														
	02/12/2012	26.8		<3.105					1	<u> </u>			+				+	+			
	06/09/2014	15.9		-2	.40 <2	10	<2.40														
	01/21/2014	15.3			.40 <2		<3.00		-												
	09/03/2013	13.5JL*			.00 <3 10J* <3.1		<3.10J*											+	+		
	04/23/2013	11.6J*			10J* <3.1		<3.10J*		-												
	12/26/2012	9.50J*	<u> </u>		10J* <3. 10J* <3.		<3.10J*		-	<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·				1	+	+	1	
	09/05/2012	9.505 14.0J*			10J* <3. 10J* <3.		<3.10J*			+			+					+	+	+	
1436	05/21/2012	14.0J*		<3.10J*	<u> </u>				1	+	+						+	+	+	+	
	04/30/2012	11.8J*			10J* <3.1	0.1*	<3.10J*		-				+				1	1	+		
	01/31/2012	11.0J 11.2J*	<u> </u>		10J* <3. 10J* <3.		<3.10J*		1	+	+		+				1	+	+	1	
	10/04/2011	11.2J 12.5J*		<3.10J*			<b>~</b> 3.100			+			1					+	+		
	08/23/2011	12.55	h	<b>S.100</b>																	
	04/17/2010	<10.0		+									+				+	+			
	04/17/2010	<10.0					I	1	1	1	1	1	ł				1		1	1	

	Sample Port	A	4	С	C1	C2		D	D1	D2	1-C	1-C1	1-C2	2-C	2-C1	2-C2	3-C	3-C1	3-C2	1-D	2-D	3-D
	Duplicates		DUP				DUP															
PW-ID	Sample Date										Sulfo	ane (µg/l	)									
	09/02/2014	22.6			<2.40																	
	06/26/2012	11.9J*			<3.10J*	<3.10J*		<3.10J*														
1437	11/14/2011	10.3J*		<3.10J*																		
	08/29/2011	10.9																				
	04/16/2010	<10.9																				
1459	05/22/2014	18.0		<2.00																		
1459	06/28/2013	15.7	15.7																			

Notes:

PW-ID Private-well identification number.

§ Commercial location

† System has been deactivated and moved to treating the new well for this location

‡ System has been installed but has not been activated due to vacant structure

Flags

J Estimated concentration; sulfolane was detected below the laboratory limit of quanitation (LOQ) and above the detection limit (DL). Flag applied by laboratory.

J\* Estimated concentration. Flag applied by Shannon & Wilson, Inc. due to quality control failures and/or lack of field duplicates (for older data).

JL\* Estimated concentration, biased low. Flag applied by Shannon & Wilson, Inc. due to quality control failures.

JH\* Estimated concentration, biased high. Flag applied by Shannon & Wilson, Inc. due to quality control failures.

X\* Sample switch suspected; however, not confirmed due to inability to confirm original results.

< Sample not detected above concentration listed.

#### Sample Ports

A Influent water directly from private-well

C Post primary treatment sample port (after two tanks on a duplex system or one tank on a simplex system); these samples are typically collected at system startup.

C1 Sample collected from sample port "C" prior to a carbon tank change out.

C2 Sample collected from sample port "C" after a carbon tank change out.

D Post redundant treatment sample port

D1 Sample collected from sample port "D" prior to a redundant tank change out.

D2 Sample collected from sample port "D" after a redundant tank change out.

1-X Unit 1 sample, where "X" indicates sample port; some locations may run several treatment units in parallel.

2-X Unit 2 sample, where "X" indicates sample port; some locations may run several treatment units in parallel.

3-X Unit 3 sample, where "X" indicates sample port; some locations may run several treatment units in parallel.

# Table 4POE Treatment Systems Water Usage SummaryFlint Hills Resources Alaska, LLCNorth Pole, Alaska

	Private Well Indentification Number (PW ID#)	Gallons of Water treated in 2014 (Approximate)
1	0615	63,480
2	0503	46,540
3	1314	55,510
4	1315	72,140
5	0618	61,150
6	0232	36,620
7	0217 0598	32,200
<u> </u>	0636	22,780 46,800
10	0219	27,440
10	0625	15,820
12	0157	95,390
13	0624	32,760
14	1374	35,580
15	1375	60,870
16	1099	37,290
17	0488	31,510
18	0487	54,500
19	1097	31,820
20	0483	30,770
21	0648	29,030
22	0931	46,130
23	1086	24,770
24	0657	93,200
25	0942	62,520
26	0647	45,350
27	0453	26,720
28	0646	67,630
29	0225	88,210
30	0454	10,540
31	0660	32,380
32 33	0560	50,300
33	0561 0564	60,530 45,670
34	0570	49,320
36	0929	75,830
37	1408	42,100
38	0463	66,390
39	0936	22,100
40	0559	68,020
41	0562	18,070
42	0610	19,570
43	1404	33,720
44	0442	31,580
45	0946	8,080
46	1114	54,330
47	0996	47,810
48	0658	28,440
49	1407	32,390
50	0504	41,590
51	0162	56,530
52	0161	69,900
53	0988	33,960
54	0758	36,790
55 56	0489	15,190
56 57	0498	43,150
57	0617 0159	32,660 83,000
58	0620	44,430
55	0020	77,400

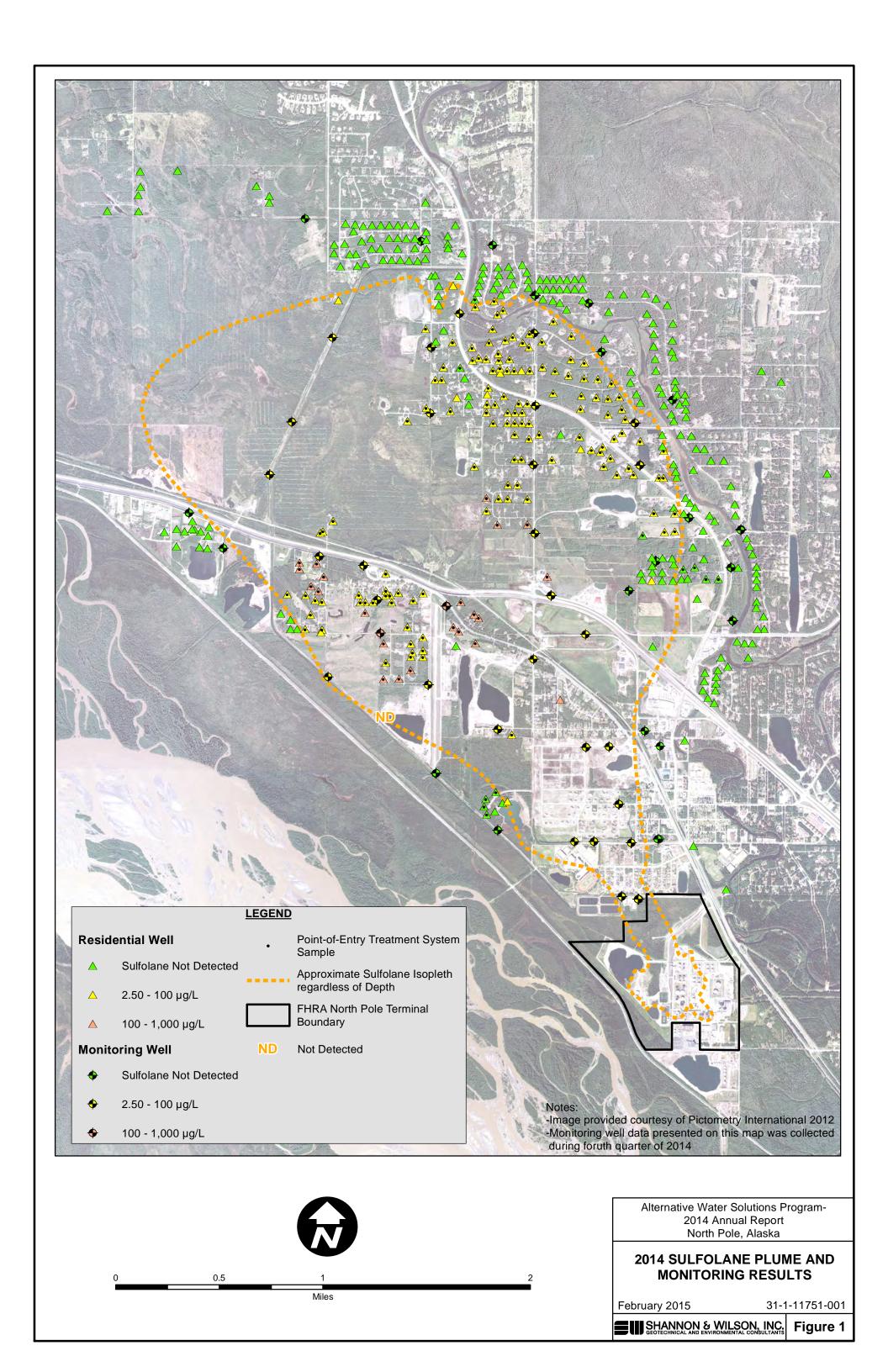
# Table 4POE Treatment Systems Water Usage SummaryFlint Hills Resources Alaska, LLCNorth Pole, Alaska

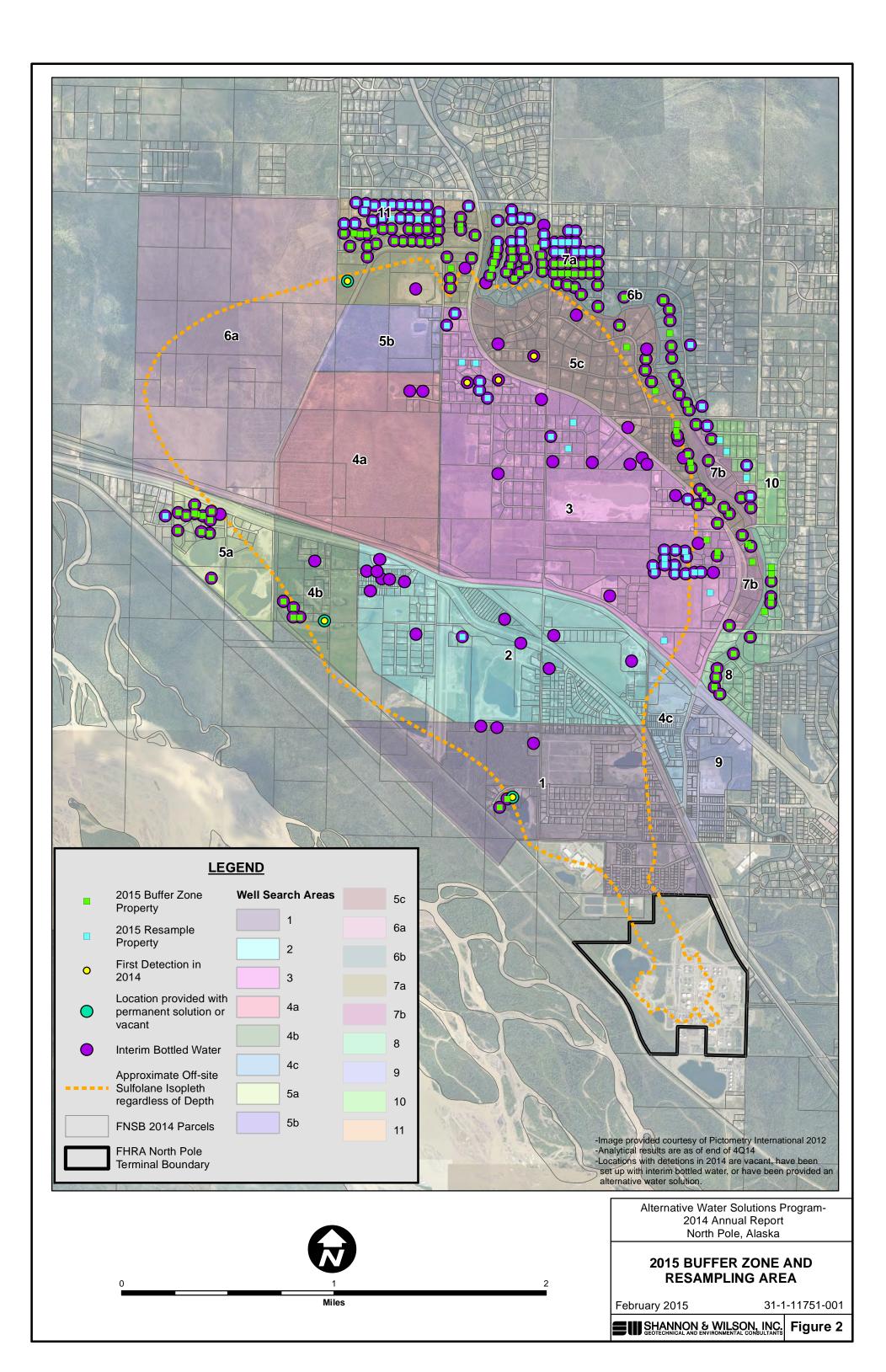
	Private Well Indentification Number (PW ID#)	Gallons of Water treated in 2014 (Approximate)
60	0164	33,470
61	0158	25,930
62	0300	36,840
63	0553	68,520
64	0542	43,270
65	0568	81,170
66	0550	34,630
67	0558	44,520
68 69	0299 0557	14,770 49,550
70	0377	87,840
70	0506	9,240
72	0606	38,660
72	1096	1,080
74	1095	33,050
75	0565	38,570
76	0649	26,410
77	0608	37,000
78	0567	43,690
79	0484	87,270
80	0502	8,000
81	0514	75,270
82	0515	32,690
83	0933	38,090
84	0303	33,130
85	0160	40,470
86	0364	51,170
87	0298	31,280
88	0566	127,180
89	0997	5,930
90	1394	0
91	0937	48,880
92	1406	29,890
93 94	0311	49,070
94 95	0296	40,340 54,470
95 96	0305 0609	11,330
90	0307	79,180
98	0439	45,270
99	0947	36.380
100	0948	14,070
101	0378	90,060
102	0302	18,890
103	1190	34,420
104	0945	47,620
105	0295	34,460
106	0597	77,860
107	1155	47,890
108	0944	48,580
109	0586	69,490
110	0622	105,260
111	1436	51,450
112	0309	29,650
113	0938	41,440
114	0656	24,530
115	1186	106,330
116	0651	23,830
117	0348	56,790
118	0308	45,360

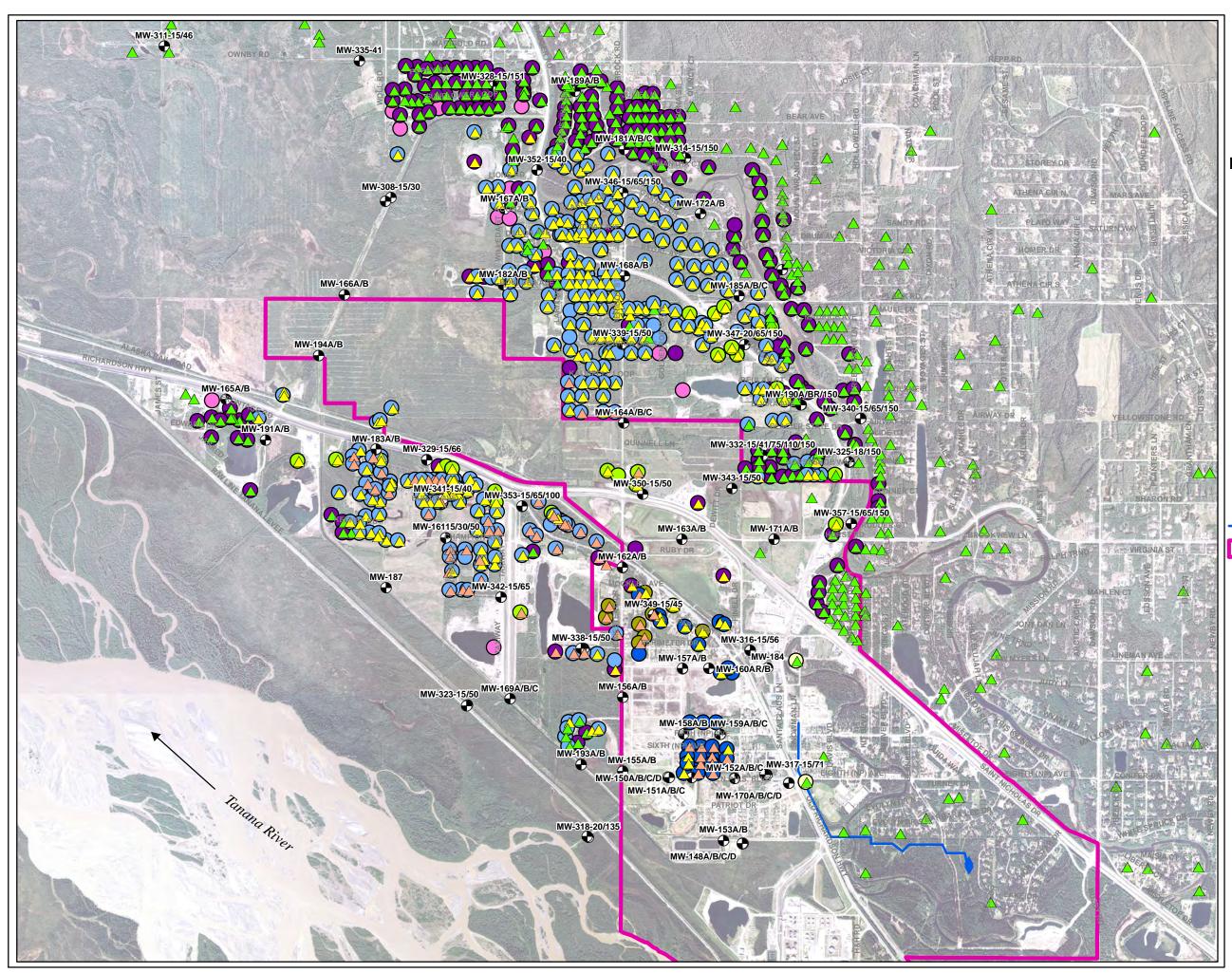
# Table 4POE Treatment Systems Water Usage SummaryFlint Hills Resources Alaska, LLCNorth Pole, Alaska

	Private Well	
	Indentification	Gallons of Water
	Number (PW	treated in
	ID#)	2014 (Approximate)
119	0607	98,690
120	0544	64,040
121	0390	23,450
122	0773	48,500
123	0304	40,320
124	0394	14,780
125	0376	94,710
126	0943	40,130
127	0221	57,360
128	0940	4,820
129	1437	5,680
130	0393	11,860
131	0347	30,890
132	0755	47,660
133	0480	6,780
133	1118	62,760
134	0556	
135	1435	85,690 73,860
	0757	
137 138		33,630
	1109	22,290
139	1101	25,760
140	1103	41,980
141	1105	61,260
142	1104	26,820
143	1116	53,840
144	0554	51,970
145	0599	27,800
146	1276	40,310
147	0932	38,190
148	0312	96,070
149	1110	37,870
150	1100	24,060
151	0301	36,760
152	0466	34,210
153	0511	69,950
154	0365	186,920
155	1395	96,870
156	0456	72,800
157	0563	51,060
158	0391	27,350
159	0653	50,310
160	1107	176,844
161	1108	143,760
162	1106	102,190
163	1459	41,050
164	1111	0
165	0754	0
100	2199	41,880
	Total	7,796,164

### Figures







#### Figure 3 Potable Water Solutions Provided by Flint Hills Resources

#### Legend

 $\bigcirc$ 

- Sulfolane Not Detected
- <u>Δ</u> 2.50 100 μg/L
- 🔺 100 1,000 μg/L
- Monitoring Well
- City Water Solutions
- Long Term Alternative Water Solution -Residential Property
- Long Term Alternative Water Solution -Commercial Property
- Interim Bottled Water Solution
  - Water Tank Listed As Water Source During Survey (Outside City Limits)
- Auxiliary Well Sample, City Water Listed As Drinking Water Source During Survey
- City of North Pole Fire Wells
- New NP City Wells
- Water Main New City Wells
- North Pole City Boundary
- ppb = parts per billion
- 1 ppb = 1  $\mu$ g/L (microgram per liter)
- $1 \mu g/L = 0.00000001 g/L (gram per liter)$

\*The latest sulfolane result for a well is presented on this map.



Private Well Results and Solutions as of December 31, 2014

#### Attachment A

2014 Newsletters to Homeowners

at www.northpolegroundwater.com

#### STAY INFORMED

Stay informed on what is happening by visiting us online at **www.northpolegroundwater.com**. This website is a one-stop shop for residents, realtors and others. While there, sign up to receive our monthly e-mail newsletter.

The Alaska Department of Environmental Conservation has information online as well at www.dec.alaska.gov.



The official newsletter keeping North Pole informed and educated on sulfolane and the Flint Hills Resources Alaska (FHRA) refinery.

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Alaska



#### THIS ISSUE:

#### Homeowner water solutions

In this issue, we will focus on the options FHRA has offered affected homeowners through 2013. These options included:

**Bottled Water Delivery:** FHRA provides bottled water delivery to homes until wells test below the state regulated limit for sulfolane. There is no cost to the homeowner for these deliveries. The homeowner is responsible for preventing damage to the water dispenser and jugs.

Bulk water: A bulk water tank system generally consists of a buried 2,000 gallon insulated water tank, pump and pressure tank that is connected to domestic water supply lines in the home. FHRA provides and pays for 60 gallons per day for each resident in the home, and maintenance for the system, until the well tests below the state regulated limit for sulfolane. Homeowners are responsible for preventing damage to the system and paying for the cost of water above 60 gallons per resident per day.

Water Treatment: The water treatment system uses your home's existing well and treats water for sulfolane. While homeowners are responsible for preventing damage to the system, FHRA (through a contracted vendor) maintains this system (including providing filters, salt for the softener, and carbon replacement) until the well tests below the state regulated limit for sulfolane.



### FHRA RESULTS:

#### In 2013, FHRA:

**Delivered 2,208,937** gallons of water to commercial and residential bulk tanks.

**Treated** just over **7,000,000** gallons of water in residential and commercial treatment systems.

**Collected 669** water samples from monitoring wells and private wells for testing.

**Supplied 104,525** gallons of bottled water to residents on long term and interim bottled water plans.

**Performed** in excess of **650** service visits to maintain treatment systems.

#### To date, FHRA:

Installed 161 water treatment systems, 113 bulk tanks, 32 long term bottled water dispensers, and 48 garden tanks.

**Spent \$70 million** to address a problem that happened prior to FHRA ownership.

#### HERE TO HELP:

FHRA's North Pole Groundwater Office is located in Polar Plaza, next to the North Pole Post Office, at 201 Santa Claus Lane. The staff can send you the most recent copy of your sulfolane test results and answer any questions you have about sulfolane in North Pole.

You can call FHRA at 488-0723. Or reach Marisa Sharrah, Community Relations Manager at 488-5103 or Marisa.sharrah@kochps.com.

To reach ADEC, contact Tamara Cardona, Project Manager, Alaska Dept of Environmental Conservation, at 451-2192.

**Please remember:** When selling your home in or near the affected area, homeowners are responsible for disclosure of the sulfolane issue. A licensed Realtor is a great resource for assistance through that process.



#### ABOUT

Welcome to the second issue of "Be in the Know, North Pole." The purpose of this monthly newsletter is to educate and inform the residents of North Pole on sulfolane in the community. We will send regular newsletters to keep residents in the know about sulfolane and how it affects us all.

Learn more and subscribe to our email newsletter at www.northpolegroundwater.com

#### STAY INFORMED

Stay informed on what is happening by visiting us online at **www.northpolegroundwater.com**. This website is a one-stop shop for residents, realtors and others. While there, sign-up to receive our monthly e-mail newsletter.

The Alaska Department of Environmental Conservation has information online at www.dec.alaska.gov.





#### BE IN THE KNOW, NORTH POLE.

The official newsletter keeping North Pole informed and educated on sulfolane and the Flint Hills Resources Alaska (FHRA) refinery.

### THIS ISSUE:

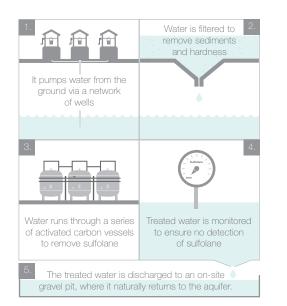
#### Pump and Treat System

In this issue, we will focus on our pump and treat system. In 2013 alone, this system treated about 200 million gallons of water. This year, we plan to do even more by expanding the existing pump and treat system.

#### This system:

- Is coming online this summer
- Is almost identical in technology to the proven system we brought online in June 2011
- Will further capture and remove sulfolane in groundwater under the refinery
- Will increase current gallons of water treated per day from about 500,000 to 800,000

### The pump and treat system is actually quite simple. Here's how it works:





#### FHRA TODAY:

The Flint Hills Resources North Pole Refinery is being decommissioned. However, we will continue to work on the North Pole groundwater project, which will include resampling buffer-zones and adding to the on-site remediation system this summer. Buffer-zone testing will be conducted during that time on over 200 private wells to monitor the properties on the leading edge of the plume. We will also be providing alternative water to those residents and businesses affected by sulfolane.

The Flint Hills North Pole Terminal will still be operating as well - offloading fuels from the Flint Hills Anchorage Terminal for distribution to our Interior Alaska retail customers.

While we know the sulfolane contamination occurred when Williams Companies owned the refinery and the State of Alaska owned the land, neither of those parties has taken any responsibility for responding to this situation. As always, please contact FHRA to request your most recent sulfolane test results or to put in a request for testing. We're here to answer your questions about sulfolane in North Pole.

#### HERE TO HELP:

FHRA's North Pole Groundwater Office is located in Polar Plaza, next to the North Pole Post Office, at 201 Santa Claus Lane. The staff there can send you the most recent copy of your sulfolane test results and answer any questions you have about sulfolane in North Pole.

You can call FHRA directly at 488-0723. Marisa Sharrah, Community Relations Manager, can be reached at 488-5103 or marisa.sharrah@kochps.com.

To reach ADEC, contact Tamara Cardona, Project Manager, Alaska Dept of Environmental Conservation, at 451-2192.

**Please remember:** When selling a home in or near the affected area, homeowners are responsible for disclosure of the sulfolane issue. A licensed realtor is a great resource for assistance through that process.

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FLINT HILLS resources®

Alaska





#### THIS ISSUE:

#### FHRA History

TIMELINE		
1977	North Pole refinery produces its first barrel of product (refinery owned by Earth Resources). The property on which the refinery is located is owned by the State of Alaska.	Nov 200
1980	Earth Resources sells a majority of its stock to MAPCO	Jar
1985	Sulfolane first used at North Pole refinery	Jai
1998	Williams Companies acquires MAPCO	Aug
2000-02	Sulfolane first discovered in on-site groundwater monitoring well	Jar
2002	ADEC determined that sufolane was not considered to be a regulated contaminant and not a compound of concern for the site	201
2004	Flint Hills Resources Alaska acquires the refinery as well as the property on which the refinery is located, and submits a Corrective Action Plan to address the on-site contamination ADEC determined that sufolane will be a regulated contaminant and that its groundwater cleanup standard would be350 parts per billion (ppb)	
Oct. 2009	FHRA discovers sulfolane had migrated off site and immediately alerts city/ADEC/local media	
	FHRA states they would provide testing and bottled water while working on a long-term plan for remediation	Dec



Nov. 2009	FHRA conducts first town hall meeting to discuss concerns of the community investigation and remediation plans of the company
2009-Now	FHRA collected and analyzed samples from 815 private wells
Jan. 2010	FHRA develops a method with Ecowater Systems to remove sulfolane from water
Aug. 2010	FHRA spends \$5 million to connect 29 homes to city water
	FHRA starts work on two new city wells
Jan. 2011	Two new city wells become operational and are donated by FHRA to the City of North Pole
2011-Now	FHRA installs 75 offsite monitoring wells to track the plume
	FHRA provides solutions to 306 homes in the affected area
	FHRA continues to monitor and test quarterly
	FHRA analyzes 454 samples taken from the 184 active monitoring wells
	FHRA collected and analyzed 669 private well samples
	FHRA conducted an aerial survey to better understand the depth and thickness of permafrost in the plume area
Dec. 2013	FHRA submits on-site and off-site characterization

reports to ADEC

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