

**NOGALES INTERNATIONAL WASTEWATER TREATMENT PLANT
UNITED STATES INTERNATIONAL BOUNDARY AND WATER COMMISSION**

**ANNUAL WASTEWATER AND POLLUTANT SUMMARY REPORT
2014**

**Arizona Pollution Discharge Elimination System (AZPDES)
Permit No. AZ0025607 Part V.A.6**

INTRODUCTION

This report has been prepared in accordance with Nogales International Wastewater Treatment Plant (NIWTP) and AZPDES permit for the discharge of pollutants into waters of the United States. The AZPDES is authorized from the U.S. EPA to operate the National Pollution Discharge Elimination System Permit Program for Arizona. The NIWTP is required to report annually on certain requirements described below in order to operate and maintain the facility.

The Nogales International Wastewater Treatment Plant of the International Boundary and Water Commission (IBWC) is adjacent and westerly of the Santa Cruz River/Nogales Wash confluence, about ten miles north of Ambos, Nogales. It treats a daily average dry weather flow of approximately twelve and a half million gallons, of which approximately eighty percent is from Mexico.

A technology upgrade of the NIWTP was completed in August of 2009. This upgrade consisted of adding equipment and apparatus to upgrade the technology of the NIWTP to a Biological Nutrient Removal (BNR) system using the *Modified Ludzack-Ettinger process*. This process allows for the removal of Nitrogen compounds in the discharged effluent which had been shown to be detrimental to the fish & wildlife along the Santa Cruz River. The technology upgrade cost approximately \$64 million dollars and was funded largely by a grant from the Environmental Protection Agency (EPA) thru the Border Environment Infrastructure Fund (BEIF).

The NIWTP is staffed by seventeen persons, including administrative support and is Operated and Maintained by the United States Section of the International Boundary & Water Commission. Total yearly operation and maintenance (O&M) cost is about \$5.5 million dollars. Funding for O&M costs comes from Mexico, the City of Nogales, Arizona, and through annual appropriation to the USIBWC that are based upon flow contributions to facility from each country. In addition to responding to federal and state permits, the NIWTP provides river-based habitat for approximately ten downstream miles as well as recharge of the aquifers serving Santa Cruz and Pima County communities.

The Nogales Wastewater Treatment Plant operates under Authorization to Discharge under the Arizona Pollutant Discharge Elimination System Permit No. AZ0025607. The permit prescribes in Part V.A.6 submitting by March 31 of each year an annual report to EPA Region 9 and ADEQ. The report describes any upsets, interferences, or pass through incidents at the treatment plant, why the incidents occurred and what was done to correct the situation for the previous calendar year. Also described are the activities undertaken in working with stakeholders in Mexico and the U.S. to address treatment plant and Manhole No. 1 pollutant issues. A Binational Technical Committee convenes approximately every quarter to discuss any issues and looks for solutions that sometimes may be simple and other time require binational collaboration. Organismo Operador Municipal de Agua Potable, Alcantallado y Saneamiento (OOMAPAS), through the Mexican Section of IBWC, and other agencies, provides information and updates at these meeting and will be providing supplemental information for this report.

A. Plant upsets, interference, or pass through incidents at the NIWTP

The permit requires a discussion of all upset, interference or pass through incidents, if any, at the treatment plant during the preceding calendar year which the USIBWC knows or suspects were caused by the influent to the plant from any sources. The discussion shall include the reasons why the incidents occurred and the corrective actions taken.

Summary

Monthly Discharge Monitoring Reports (DMRs), Quarterly Pretreatment Reports, and Permit Violation Reports are attached with this report. Binational Technical Committee (BTC) meeting notes and agendas are also attached. DMRs indicate that Nickel, Selena Capricornutum, Pseudokirchneriella, and the Rolling Geon Mean Total Nitrogen. February July, August, September, October and November had no exceedances. May had no exceedances but failed to test and report for Dissolved Chromium VI. The cause of the exceedances of Selena Capricornutum and Pseudokirchneriella was unknown and so no corrective action could be taken.

Below are the monthly Discharge Monitoring Reports and the Quarterly Self-Monitoring Reports which describe exceedances for 2014. DMRs show that Nickel does surpass the permit limits but the NIWTP reports that it is unable to remove it. This is considered a pass through event and reports these events to the appropriate pre-treatment officials as required. Other exceedances include two exceedances for Selena Capricornutum in April and December and once for Pseudokirchneriella in June.

The Self-Monitoring Forms are quarterly and show that the Rolling Geometric Mean for total Nitrogen consistently exceeds the permit limit by less than 26%. Installation of additional mixers adjacent to the anoxic zones has been programmed for installation and should correct this problem. The new mixers are on site and a Purchase Requisition is in process to install new electrical circuits and control panels to serve the new mixers. The new mixers are to be installed once the new circuits and control panels are in place. It is expected that the mixers will be in place by the end of 2015.

Plant upsets and pass through events summaries from the monthly Discharge Monitoring Reports (DMRs) and Quarterly Self-Monitoring Reporting Forms (SMRFs).

DMRs

- a. January 2014 Nickel:
Monthly Average Loading 5.998KG, Permit Limit 3.82 KG
Daily Max Loading 9.889 KG, Permit Limit 3.82 KG
Daily Max Concentration 190.0 µg/l, Permit Limit 117.7 µg/l
Monthly Average Concentration 113.0 µg/l, Permit Limit 58.6 µg/l

The NIWTP does not use Nickel and is unable by design to remove Nickel from the waste stream. The NIWTP considers the Nickel to be a pass through event and notified the appropriate pre-treatment officials for investigative purposes.

- b. February 2014 No exceedances

- c. March 2014 Nickel:
Daily Max Concentration 130 µg/l, Permit Limit 117 µg/l
Monthly Average Concentration 95.0 µg/l Permit Limit 58.6 µg/l
- d. April 2014 Nickel:
Monthly Average Concentration 70µg/l, Permit Limit 62.0µg/l

NIWTP does not use nor treat for Nickel
- e. April 2014, Selena Capricornutum, 4 day Chronic:
Daily Maximum Toxicity 4.0TUC, Permit Limit 1.6 TUC

Submitted a Toxicity Identification Evaluation, Phase 1, Testing Plan for approval Still Pending
- f. May 2014 no exceedances experienced but failed to test and report on Dissolved Chromium VI due to a change on permit requirements and using the outdated form and procedures.
- g. June 2014.

		<u>Reported</u>	<u>Permit Limit</u>
Pseudokirchneriella-	4 day char MO MED	4.0.	1.0
	Daily Max	4.0.	1.6

Waiting for TIE request approval from ADEQ

- h. July 2014, No exceedances
- i. August 2014, No exceedances
- j. September 2014 ,No exceedances
- k. October 2014, No exceedances
- l. November 2014, No exceedances
- m. Dec 2014 Selena Capricornatum 4 Day Chronic

Daily Maximum Toxicity 4.0 TUC, Permit Limit 1.0 TUC

This test was conducted under the old permit. The exceedance was reported and addressed in the April 2014 FMR. We did not experience any more failures since April 2014.

SMRFs

1st Quarter Aquifer Protection Permit #P-100620

Unable to sample Ground Water at 1900 NW of AZPDES EFF DP (Well #6) due to a new landowner fencing off access but was later resolved.

Rolling Geom. Mean Total Nitrogen. 10.3250mg/l (Jan) (Permit Limit is 10mg/l)

11.447 mg/l. (Feb)

12.127 mg/l (Mar)

2nd Quarter 2014 Permit No. P-100620

Rolling Geom. Mean Total Nitrogen: Dec-Apr 12.56mg/l (Permit Limit is 10mg/l)

Jan-May 12.37

Feb-Jun 12.08

Installation of additional mixers adjacent to the anoxic zones has been programmed. The new mixers are on site and a Purchase Requisition is in process to install new electrical circuits and control panels to serve the new mixers. The new mixers are to be installed once the new circuits and control panels are in place.

3rd quarter Permit No. P-100620.

Rolling Geom. Mean Total Nitrogen Mar-Jul 11.78 mg/l. (Permit Limit is 10mg/l)

Apr-Aug 10.96 mg/l

Installation of additional mixers adjacent to the anoxic zones has been programmed. The new mixers are on site and a Purchase Requisition is in process to install new electrical circuits and control panels to serve the new mixers. The new mixers are to be installed once the new circuits and control panels are in place.

4th Quarter Permit No P-100620

Rolling Geon Mean Total Nitrogen. Jun-Oct 10.26. (Permit Limit is 10mg/l)

Jul-Nov. 10.153

Aug-Dec 10.193

- B. Activities undertaken during the previous calendar year working with CILA and any other entities in Mexico and the U.S. to address the events described in Section a) above and any pollutants identified at Manhole No.1 which exceed the limits specified in Part V, Section B.1.a of the permit.**

Quarterly Report Summaries as presented at the BTC meetings
(Full reports and graphs are attached)

Attachment 1

4th Quarter of 2013 and 1st Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP) Pretreatment Report

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 4th quarter of 2013 and the 1st quarter of 2014: **chromium, copper, nickel, and zinc** were present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Attachment 1
2nd Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP)
Pretreatment Report

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 2nd quarter of 2014: **cadmium, chromium, copper, nickel, and zinc** were present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Attachment 1
3rd Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP)
Pretreatment Report

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 3rd quarter of 2014: **chromium, nickel, and zinc** were present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Attachment 1
4th Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP)
Pretreatment Report

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 4th quarter of 2014: **chromium** was present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

The Binational Technical Committee is comprised of participants from both the U.S. and Mexico, including IBWC/CILA, EPA, ADEQ, OOMAPAS, City of Nogales, CONAGUA and others. Participation has been good and the information discussed and shared has been informative and enlightening. Issues get revealed and sometimes solved. Binational water quality sampling has been initiated as has a Wastewater Characterization study to assess and revise the Maximum Allowable Headworks Allocation (MAHA). The characterization study evaluated constituents of concerns (COCs) including conventional and inorganic parameters, metals, SVOCs and VOCs. Data gathered for this study included GIS data for the sewer system from both the US and Mexico, including the major and industrial sources and lift stations.

When exceedances occur as identified in Section B.1.a of the permit, the procedure is for Area Office Manager of the NIWTP to notify CILA and the City of Nogales about the exceedances and investigate to determine the source.

IBWC has presented quarterly results from data collected from 30 day periods of each quarter for Manhole 1, Influent and Effluent sampling. This information is presented to the BTC and openly discussed as to potential sources and remedies. Results for the four quarters of 2014 are described in the Attachments (1) in the section above.

In response to wastewater-quality concerns raised by IBWC, OOMAPAS summarized collector-monitoring activities for source characterization of nickel in wastewater. OOMAPAS sourced nickel to the Nuevo Nogales collector which is servicing a new industrial park. OOMAPAS was not yet clear on the specific source, but is investigating.

OOMAPAS notes that maintenance of its flame-AA unit will require a \$10,000 investment for calibration and lamp replacement. The flame-AA is essential for realizing laboratory certification for metals analysis and is also important for independent source characterization by the municipality. OOMAPAS communicated it does not have the resources to address the need. The unit was originally purchased through a \$60,000 grant from an EPA Border 2012 Program. OOMAPAS cost-matched the investment through construction of a laboratory to house the unit.

In 2013, Nogales, Sonora delivered an average 10.91 million gallons per day (MGD) to the NIWTP. This continues to be above the 9.9 MGD allowable under Minute 276, but is an improvement over historical exceedances. The improvement is a consequence of wastewater being delivered to the *Los Alisos Wastewater Treatment Plant (LAWTP)* south of the Santa Cruz River watershed divide.

The LAWTP plant capacity is currently 5.0 MGD, but plans are to expand its capacity to an approved 7.5 MGD. The increased plant capacity will serve new areas within the El Tecnológico watershed as well as a proposed diversion from El Emisor Central. Once the plant expansion and diversion are completed, wastewater flows to Arizona from Sonora will diminish to 8.06 MGD. This will result in Arizona receiving 2.85 MGD less than what it currently receives, and 1.83 MGD less than the maximum 9.9 MGD allowable under Minute 276.

ADEQ gave a presentation on binational impacts of stormwater and sanitary sewer overflows (SSOs). The presentation noted that a flow meter was installed on the Morley Avenue Bridge in 2010 to monitor flow in the Nogales Wash. The data from the meter is available real time on the internet and can detect runoff from small storms effectively. ADEQ monitors the gage for anomalous flows in the wash after large storms. When this occurs, ADEQ communicates the issue to the IBWC for consultation with Mexico. If the anomalous flows are confirmed to be associated with a sanitary sewer overflow, IBWC redirects the flows back into the sewer system at manhole 24.

ADEQ noted that In July, an SSO originating from Sonora went unreported and unmitigated for 12 days. ADEQ is now monitoring and sampling SSOs that are not diverted back into the collection system. Sampling has detected chromium in the Nogales Wash at the Morley Avenue Tunnel exit, and further downstream where water infiltrates into the shallow aquifer. Given that chlorination is taking place in the wash, oxidizing conditions can promote the formation of hexavalent chromium, which is a known carcinogen. This is a concern to Arizona should an unreported SSO take place during a slug discharge of metals to the conveyance. In this context, ADEQ notes that SSOs need to be mitigated in Mexico at their source. If mitigation is not possible, communication with IBWC must take place as soon as possible for mitigation at manhole 24. The issue further highlights the need for adequate pretreatment, since chromium is being detected at the Morley Avenue Tunnel exit where the wash daylight from Mexico, and further downstream where surface water recharges the aquifer.

C. Information Provided by OOMAPAS

Information has been requested by OOMAPAS and is still pending. This information will be provided to ADEQ as soon as it becomes available.



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

February 27, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed-Ex – 7980 5205 8700

RE: Discharge Monitoring Report (DMR) for January 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - January 2014.

Please find below a listing of exceedances experienced and explanations for each:

Nickel

Monthly Average Loading – 5.998 KG – Permit Limit 3.82 KG

Daily Max Loading- 9.889 KG – Permit limit- 7.66 KG

Daily Max Concentration- 190.0 µg/l – Permit limit 117.7 µg/l

Monthly Average Concentration– 113.0 µg/l – Permit Limit 58.6 µg/l

The NIWTP does not use Nickel in any of its treatment processes and is unable by design to remove Nickel from the waste stream. The NIWTP considers the Nickel to be a pass through event and has notified appropriate pre-treatment officials for investigative purposes.

If you have any questions or comments, please contact me at (520) 281-1832.

PERMITTEE INFORMATION

NAME: LISBMAC
 ADDRESS: Nogales International WWTP
 4177 N. WISSER, C-100
 EPHSO, TX 78802

MAXIMUM POLLUTANT DISCHARGE ILLUMINATION SYSTEM PERIOD
 DISCHARGE MONITORING REPORT (DMR)
 AZ0025507
 PERMIT NUMBER
 001A
 DISCHARGE NUMBER

FACILITY: Nogales International WWTP
 LOCATION: RG Road, AZ 85648-6235

MONITORING PERIOD
 FROM 14 01 01 TO 14 01 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADS			QUALITY OR CONCENTRATION			LIMIT	NO. FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MINIMUM	MAXIMUM	UNITS	AVERAGE	MINIMUM				MAXIMUM
TUC 8TAT 4DAY CHR	MEASUREMENT	*****	*****	*****	*****	*****	(26)	0	01/30	COMP24
SELEN CAPRICORNUTUM	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
TTC1A 1 0 0	MEASUREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
TUC 8TAT 7DAY CHR	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
PIMEPHALES PROMELAS	MEASUREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
TTD8C 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
TUC 8TATRE 7DAY CHR	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	05/30	COMP24
CERIODAPHNIA DUBIA	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
TTP3B 1 0 0	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
TEMPERATURE, WATER	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	05/30	COMP24
DEG. CENTIGRADE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
00010 1 0 0	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
OXYGEN, DISSOLVED	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
(DO)	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
00300 1 0 0	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
PH	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
00100 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
SOLIDS, TOTAL	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
SUSPENDED	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
00830 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****
EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	*****	*****	*****	CHRONIC TOXICITY	0	01/30	COMP24
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT DAILY MAX	*****	*****	*****

John M. Light

Area Operations Manager
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 520-281-1832
 AREA CODE NUMBER: 14 | 02 | 28
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE INFORMATION:

NAME: LISBWC
 ADDRESS: Nogales International WWTP
 4171 N. BARR, C-100
 EI PASO, TX 79602

WASTEWATER POLLUTANT DISCHARGE ELIMINATION SYSTEM (WDES)
 DISCHARGE MONITORING REPORT (DMR)
 AZ0025807
 PERMIT NUMBER
 007A
 DISCHARGE NUMBER

FACILITY: Nogales International WWTP
 LOCATION: Rio Rico, AZ 85648-8235

MONITORING PERIOD
 FROM 14 01 01 TO 14 01 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNIT	NO. EX.	NO. FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM					
LEAD											
TOTAL RECOVERABLE	0.01	0.016	(01)		0.2	0.3	(28)	0	01/14	COMP24	
01114 1 0 0											
EFFLUENT GROSS VALUE											
CHROMIUM											
TOTAL RECOVERABLE	0.23	0.33	(01)		4.33	6.00	(28)	0	01/14	COMP24	
01118 1 0 0											
EFFLUENT GROSS VALUE											
COPPER											
TOTAL RECOVERABLE	0.46	0.55	(01)		8.67	10.00	(28)	0	01/14	COMP24	
01190 1 0 0											
EFFLUENT GROSS VALUE											
CHROMIUM HEXAVALENT											
DISOLVED (AS CR)	<0.2118	<0.2188	(01)		<4	<4	(28)	0	01/14	DISCRT	
01220 1 0 0											
EFFLUENT GROSS VALUE											
OIL AND GREASE											
03582 1 0 0											
EFFLUENT GROSS VALUE											
FLOW, IN CONDUIT OR											
THRU TREATMENT PLANT											
50050 1 0 0											
EFFLUENT GROSS VALUE	13.780	15.180	(03)		NOD(8)	NOD(8)	(28)	0	01/30	DISCRT	
CHLORINE, TOTAL											
RESIDUAL											
60080 1 0 0											
EFFLUENT GROSS VALUE											
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	John M. Light Area Operations Manager										
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										
COMMENT AND EXPLANATION OF ANY VIOLATIONS	NOD(8) - Chlorine is not used during our treatment process.										
	TELEPHONE							DATE			
	620-261-1892							14 02 28			

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 A200025507 PERMIT NUMBER
 INF-A DISCHARGE NUMBER

PERMITTEE NAME/ADDRESS
 NAME: USEBWC
 ADDRESS: Nogales International WWTP
 4171 N. Nogales, C-18U
 E17856, TX 78902
 FACILITY: Nogales International WWTP
 LOCATION: Rd 866, AZ 85648-8236

MONITORING PERIOD
 FROM 14 | 01 | 01 TO 14 | 01 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT	MINIMUM			
SOLIDS, TOTAL	*****	*****	***	182.8	178.0	*****	(19)	0	01/07	COMP24	
SUSPENDED SOLIDS	*****	*****	***	REPORTING REQ AVG	REPORTING REQ AVG	*****	MGL	0	WEEKLY	COMP24	
RAW SEWAGE EFFLUENT	*****	*****	***	160.60	170.00	*****	(19)	0	01/07	COMP24	
06 DAY, 20C BOD, CARBONACEOUS	*****	*****	***	REPORTING REQ AVG	REPORTING REQ AVG	*****	MGL	0	WEEKLY	COMP24	
RAW SEWAGE EFFLUENT	*****	*****	***			*****					
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
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PERMIT REQUIREMENT											
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PERMIT REQUIREMENT											
NAME / TITLE: John M. Light Area Operations Manager TYPED OR PRINTED SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE: 820-2810183 AREA COORDINATOR DATE: 14 02 26 YEARS MO DAY											

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

March 26, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed-Ex -- 7983 4286 4039

RE: Discharge Monitoring Report (DMR) for February 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - February 2014.

Please note there were no exceedances for the month of February.

If you have any questions or comments, please contact me at (520) 281-1832.

Sincerely,

John M. Light
Nogales Area Operations Manager

PERMITTEE NAME: USIBWC

ADDRESS: Nogales International WWTP
 4171 N. 2888, C-100
 El Paso, TX 78902

FACILITY: Nogales International WWTP
 LOCATION: Rio Rico, AZ 85648-5235

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: AZ0026807
 DISCHARGE NUMBER: 007A

MONITORING PERIOD

FROM 14 | 02 | 01 TO 14 | 02 | 28

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUALITY OR CONCENTRATION		QUANTITY OR LOADING		UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM								
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.132	58.03	(01)	KG/ DAY	0.000	1.00	(28)	0	01/07	COMP24	
EFFLUENT GROSS VALUE CYANIDE, TOTAL (AS CN) 00720 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.000	DAILY MAX	(01)	MG/L	0.000	DAILY MAX	MG/L	0	WEEKLY	COMP24	
EFFLUENT GROSS VALUE SELENIUM, TOTAL VERABLE 00881 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.000	DAILY MAX	(01)	MG/L	0.000	DAILY MAX	UGAL	0	ONCE/ 2WKS	DISCRT	
EFFLUENT GROSS VALUE BERYLLIUM, TOTAL RECOVERABLE (AS BE) 00996 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.000	DAILY MAX	(01)	MG/L	0.000	DAILY MAX	UGAL	0	ONCE/ 2WKS	DISCRT	
EFFLUENT GROSS VALUE NICKEL TOTAL RECOVERABLE 01074 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.000	DAILY MAX	(01)	MG/L	0.000	DAILY MAX	UGAL	0	ONCE/ 2WKS	COMP24	
EFFLUENT GROSS VALUE SILVER TOTAL RECOVERABLE 01079 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.001	DAILY MAX	(01)	MG/L	0.001	DAILY MAX	UGAL	0	ONCE/ 2WKS	COMP24	
EFFLUENT GROSS VALUE CADMIUM TOTAL RECOVERABLE 01113 1 0 0	MEASUREMENT PERMIT REQUIREMENT	0.001	DAILY MAX	(01)	MG/L	0.001	DAILY MAX	UGAL	0	ONCE/ 2WKS	COMP24	
EFFLUENT GROSS VALUE NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	MEASUREMENT PERMIT REQUIREMENT	0.001	DAILY MAX	(01)	MG/L	0.001	DAILY MAX	UGAL	0	ONCE/ 2WKS	COMP24	

DATE: 14 | 02 | 28

TELEPHONE: 520-281-1832

AREA CODE NUMBER: 520-281-1832

YEAR: 14 | 02 | 28

DAY: 28

NO DISCHARGE

QUALITY OR CONCENTRATION

QUANTITY OR LOADING

UNITS

MINIMUM

AVERAGE

MAXIMUM

UNIT

NO. EX

FREQUENCY OF ANALYSIS

SAMPLE TYPE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

John M. Light

Area Operations Manager

TYPED OR PRINTED

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE MAILING ADDRESS

NAME: USISWC
 ADDRESS: Nogales International WWTP
 2177 N. WAGON C-100
 EL PASO, TX 79902

FACILITY: Nogales International WWTP
 LOCATION: RG Rcd, AZ 85648-8235

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: AZ0025807
 DISCHARGE NUMBER: 001A

MONITORING PERIOD

FROM 14 | 02 | 01 TO 14 | 02 | 28

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT	MINIMUM			
E. COLI COLONY FORMING UNITS (CFU) 51041 1 0 0	*****	*****	****	*****	NODI (B)	NODI (B)	(32)	*****	0	01/07	DISCRT
EFFLUENT GROSS VALUE MERCURY	*****	*****	****	*****	128 MG AVG	DAILY MAX	CFU 100ML	*****	0	WEEKLY	DISCRT
TOTAL RECOVERABLE 71901 1 0 0	NODI (B)	NODI (B)	(01)	*****	NODI (B)	NODI (B)	(28)	*****	0	01/14	COMP24
EFFLUENT GROSS VALUE BOD CARBOXYLIC ACIDS	108 MG AVG	DAILY MAX	KG/ DAY	*****	141 MG AVG	DAILY MAX	UGAL	*****	0	WEEKLY	COMP24
05 DAY, 20C 80082 1 0 0	82.26	93.40	(01)	2.00	2.00	*****	(19)	*****	0	01/07	COMP24
EFFLUENT GROSS VALUE BOD, CARB-30 DAY, 20	1628	2016	KG/ DAY	25	40	WEEKLY AVG	MGL	*****	0	WEEKLY	COMP24
DEG C. PERCENT REMVL 80091 K 0 0	*****	*****	****	98.54	*****	*****	(28)	*****	0	01/07	COMP24
PERCENT REMOVAL SOLIDS, SUSPENDED	*****	*****	****	85	*****	*****	PER CENT	*****	0	WEEKLY	COMP24
PERCENT REMOVAL 51011 K 0 0	*****	*****	****	99.270	*****	*****	(28)	*****	0	01/07	COMP24
PERCENT REMOVAL	*****	*****	****	85	*****	*****	PER CENT	*****	0	WEEKLY	COMP24
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	FBI John M. Light										
TYPED OR PRINTED	Area Operations Manager										
COMMITMENT AND EXPLANATION OF ANY VIOLATIONS	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										
TELEPHONE	820-281-1832										
DATE	14 02 28										
YEAR MO DAY	YEAR MO DAY										



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

April 25, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed-Ex – 7986 6597 9456

RE: Self Monitoring Report Form (SMRF) for 1st Quarter 2014
Discharge Monitoring Report (DMR) for 1st Quarter 2014
Discharge Monitoring Report (DMR) for March 2014

Permit: P-100620 Nogales International Wastewater Treatment Plant (NIWTP)
Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following SMRF and DMR Reports:

Aquifer Protection Permit # P-100620

Quarterly SMRF - 1st quarter 2014.

Please note that we were unable to sample Ground Water at 1900FT NW of AZPDES EFF DP (Well# 6) during the month of February. The well was fenced off by the new owner of the property. The problem was resolved and we got access during March.

Furthermore please find below a list of exceedances experienced along with respective explanations:

<u>Parameter</u>	<u>Reported</u>	<u>Permit Limit</u>
Rolling Geom. Mean Total Nitrogen -	10.325 mg/l (Jan)	Permit limit 10 mg/l
Rolling Geom. Mean Total Nitrogen -	11.447 mg/l (Feb)	Permit limit 10 mg/l
Rolling Geom. Mean Total Nitrogen -	12.127 mg/l (March)	Permit limit 10 mg/l

PERMITTEE NAME/ADDRESS:
 NAME: LISISWIC
 ADDRESS: Nogales International WWTP
 4171 N. Mesa, C-100
 El Paso, TX 79902

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM REPORT
 DISCHARGE MONITORING REPORT (DMR)
 AZ0026807
 PERMIT NUMBER
 001 A
 DISCHARGE NUMBER

FACILITY: Nogales International WWTP
 LOCATION: Rio Rico, AZ 85648-6235

MONITORING PERIOD
 FROM 14 | 03 | 01 TO 14 | 03 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT				
TUC STAT 4DAY CHR	*****	*****		*****	*****		(2G)	0	01/30	COMP2	
SELEN CAPRICORNUTUM TTC1A 1 0 0	*****	*****	****	*****	*****	REPORT DAILY MAX	CHRONC TOXCTY	0	ONCE/MONTH	COMP2	
EFFLUENT GROSS VALUE TUC STAT 7DAY CHR	*****	*****	****	*****	*****	REPORT DAILY MAX	CHRONC TOXCTY	0	01/30	COMP2	
PIMEPHALES PROMELAS TTD6C 1 0 0	*****	*****	****	*****	*****	MG AVG DAILY MAX	CHRONC TOXCTY	0	ONCE/MONTH	COMP2	
EFFLUENT GROSS VALUE TUC STATRE 7DAY CHR	*****	*****	****	*****	*****	MG AVG DAILY MAX	CHRONC TOXCTY	0	01/30	COMP2	
CERIODAPHNIA DUBIA TTP3B 1 0 0	*****	*****	****	*****	*****	MG AVG DAILY MAX	CHRONC TOXCTY	0	05/30	COMP2	
EFFLUENT GROSS VALUE TEMPERATURE, WATER	*****	*****	****	*****	*****	MG AVG DAILY MAX	CHRONC TOXCTY	0	ONCE/MONTH	COMP2	
DEG. CENTIGRADE 00010 1 0 0	*****	*****	****	*****	*****	22.05	(04)	0	01/30	COMP2	
EFFLUENT GROSS VALUE OXYGEN, DISSOLVED (DO)	*****	*****	****	*****	*****	REPORT DAILY MAX	DEG. C	0	ONCE/MONTH	COMP2	
00300 1 0 0	*****	*****	****	*****	*****	6.94	(19)	0	01/30	DISCR1	
EFFLUENT GROSS VALUE PH	*****	*****	****	*****	*****	REPORT DAILY MAX	MGL	0	ONCE/MONTH	DISCR1	
00100 1 0 0	*****	*****	****	*****	*****	7.31	(12)	0	01/01	DISCR1	
EFFLUENT GROSS VALUE SOLIDS, TOTAL	*****	*****	****	*****	*****	REPORT DAILY MAX	SU	0	DAILY	DISCR1	
SUSPENDED 00630 1 0 0	*****	*****	(01)	*****	*****	*****	(19)	0	01/07	COMP2	
EFFLUENT GROSS VALUE	*****	*****	KG/DAY	*****	*****	*****	MGL	0	WEEKLY	COMP2	
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	Signature: <u>John M. Light</u> Area Operations Manager TYPED OR PRINTED										
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 520-281-1832 AREA CODE NUMBER TELEPHONE DATE 14 04 25 YEAR MO DAY										

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: AZ0025807
DISCHARGE NUMBER: 001A

MONITORING PERIOD
FROM 14 03 01 TO 14 03 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PERMITTEE NAME/ADDRESS:
NAME: LISBVMC
ADDRESS: Nogales International WWTP
4171 N. Mesa, C-100
El Paso, TX 79912

FACILITY: Nogales International WWTP
LOCATION: Rio Rico, AZ 85648-8235

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
LEAD									
TOTAL RECOVERABLE	0.0170	0.0250	(01)	*****	0.5	0.7	0	01/14	COMP2A
01174 1 0 0									
EFFLUENT GROSS VALUE	MG AVG	DAILY MAX	KG/DAY		4.19	6.23		ONCE/2 WKS	COMP2A
CHROMIUM									
TOTAL RECOVERABLE	0.15	0.20	(01)	*****	3.00	4.00	0	01/14	COMP2A
01118 1 0 0									
EFFLUENT GROSS VALUE	MG AVG	DAILY MAX	KG/DAY		100	100		ONCE/2 WKS	COMP2A
COPPER									
TOTAL RECOVERABLE	0.32	0.35	(01)	*****	7.50	8.00	0	01/14	COMP2A
01180 1 0 0									
EFFLUENT GROSS VALUE	MG AVG	DAILY MAX	KG/DAY		1.7	1.8		ONCE/2 WKS	COMP2A
CHROMIUM, HEXAVALENT									
DISSOLVED (AS CR)	<0.17	<0.20	(01)	*****	<3	<4	0	01/14	DISCRT
01220 1 0 0									
EFFLUENT GROSS VALUE	MG AVG	DAILY MAX	KG/DAY		1.7	1.8		ONCE/2 WKS	DISCRT
OIL AND GREASE									
09682 1 0 0									
EFFLUENT GROSS VALUE									
FLOW, IN CONDUIT OR									
THRU TREATMENT PLANT	12.038	17.280	(03)	*****	NOD(B)	NOD(B)	0	01/30	DISCRT
50050 1 0 0									
EFFLUENT GROSS VALUE	AVERAGE	DAILY MAX	MGD		REPORT	REPORT		ONCE/MONTH	DISCRT
CHLORINE, TOTAL									
RESIDUAL	NOD(9)	NOD(9)	(01)	*****	NOD(9)	NOD(9)	0	CONTIN	METER
50060 1 0 0									
EFFLUENT GROSS VALUE	MG AVG	DAILY MAX	KG/DAY		4	5		CONTIN	METER
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER									
TELEPHONE: 520-281-1832 DATE: 14 04 25 AREA CODE NUMBER: 520-281-1832 YEAR MO DAY: 14 04 25									

Area Operations Manager
TYPED OR PRINTED
John M. Light

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS
NOD(9)- Chlorine is not used during our treatment process.

(Reference all attachments here)

Form by <http://www.epa.gov/npdes/forms/npdes-dmr.pdf>



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

May 27, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed-Ex – 7701 0679 8520

RE: Discharge Monitoring Report (DMR) for April 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - April 2014.

Please find below a listing of exceedances experienced and explanations for each:

Nickel

Monthly Average Concentration– 70.0 µg/l – Permit Limit 62.0 µg/l

The NIWTP does not use Nickel in any of its treatment processes and is unable by design to remove Nickel from the waste stream. The NIWTP considers the Nickel to be a pass through event and has notified appropriate pre-treatment officials for investigative purposes.

Selen Capricornutum, 4 Day Chronic

Daily Maximum Toxicity- 4.0 TUc- Permit Limit 1.6 TUc.

Following similar failures last year, we submitted a TIE phase 1 testing Plan for review and approval by ADEQ. So far we did not receive any response from ADEQ. A copy of our December 2013 letter is enclosed for your reference



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION

December 24, 2013

Marcia Colquitt
Environmental Coordinator
Arizona Department of Environmental Quality
Water Quality Compliance Enforcement Unit
1110 West Washington Street
Phoenix, Arizona 85007-2952

Re: Nogales International Wastewater Treatment Plant Toxicity Identification Evaluation.

Dear Ms. Colquitt:

The International Boundary and Water Commission, United States Section (USIBWC) under Arizona Pollutant Discharge Elimination System permit AZ0025607 is notifying the Arizona Department of Environmental Quality that the USIBWC will be initiating a Toxicity Identification Evaluation, phase I pursuant to Part IV, Section D.3 and 4 of the permit.

The Nogales International Wastewater Treatment Plant (NIWTP) had a failure for chronic toxicity for *Selenastrum capricornutum* on August 13, 2013. The USIBWC then began a series of Whole Effluent Toxicity testing every 2 weeks for 4 testing cycles. During the expanded series of testing, the NIWTP again experienced a failure.

The USIBWC held a consultation with our contract laboratory, Legend Technical Services and the sub-contractor, Bio-Aquatics to discuss the need to identify the source of the failures. The cause is currently unknown; therefore, we have requested a TIE phase I testing to begin upon approval from ADEQ. The laboratory has supplied a testing plan, which is enclosed, for review by the ADEQ. Upon notification from ADEQ of acceptance of the plan, the USIBWC will immediately begin collecting samples for WET analysis every two weeks. If the samples fail any of the toxicity requirements, the laboratory will perform a phase I identification assessment of the effluent samples. If no cause is identified, the USIBWC will prepare a TIE phase II plan to be reviewed by ADEQ.

If you have any questions, please feel free to call me at (915) 832-4702.

Sincerely,


Gilbert G. Anaya
Division Chief
USIBWC Environmental Management Division

REMITTER INFORMATION:

NAME: USEBAC
 ADDRESS: Nogales International WWTP
 4771 N. 1000, C-100
 El Paso, TX 79912

FACILITY: Nogales International WWTP
 LOCATION: Rd 1600, AZ 85648-8235

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: A2002007
 DISCHARGE NUMBER: 001A

MONITORING PERIOD

FROM 14 | 04 | 01 TO 14 | 04 | 30

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	QUALITY OR LOADING				UNITS	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNIT	NO. EX ANALYSES	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE								
TUC 8TAY 4DAY CHR												
SELEN CAPRICORNULUM												
TTTCA 1 0 0									4.0	(25)	0	01/80
EFFLUENT GROSS VALUE										CHROMIC TOXICITY		COMP24
TUC 8TAY 7DAY CHR												
PIMERHALES PROMELAS												
TTTDC 1 0 0								1.0			0	01/80
EFFLUENT GROSS VALUE										CHROMIC TOXICITY		COMP24
TUC STAIR 7DAY CHR												
CERIODAPHNIA DUBIA												
TTT35 1 0 0								1.0			0	05/80
EFFLUENT GROSS VALUE										CHROMIC TOXICITY		COMP24
TEMPERATURE, WATER												
DEG. CENTIGRADE									23.75	(04)	0	01/80
00010 1 0 0										DEG. C		DISCRT
EFFLUENT GROSS VALUE												
OXYGEN, DISSOLVED												
(DO)												
00300 1 0 0									7.71	(18)	0	01/80
EFFLUENT GROSS VALUE										MGL		DISCRT
PH												
00100 1 0 0									7.40	(12)	0	01/01
EFFLUENT GROSS VALUE												DISCRT
SOLIDS, TOTAL												
SUSPENDED												
00530 1 0 0												
EFFLUENT GROSS VALUE												
MALE/TITLE PRINCIPAL EXECUTIVE OFFICER												

Area Operations Manager
 TYPED OR PRINTED
 John M. Light
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 820-251-1882
 AREA OPERATIONS

DATE: 14 | 04 | 27
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Indication of attachments here)

PERMITTEE NAME: URSIDWAC
 ADDRESS: Napsis International WWTP
 4171 N. 103rd, C-100
 El Paso, TX 79902
 FACILITY: Napsis International WWTP
 LOCATION: Rio Rio, AZ 85548-6235

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 AZD0026007
 PERMIT NUMBER
 UUT A
 DISCHARGE NUMBER

MONITORING PERIOD
 FROM 14 | 04 | 01 TO 14 | 04 | 30

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
LEAD									
TOTAL RECOVERABLE	0.0000	0.0000	(01)		0.2		0	01/14	COMP24
EFFLUENT GROSS VALUE									
CHROMIUM									
TOTAL RECOVERABLE	0.09	0.09	(01)		2.00		0	01/14	COMP24
EFFLUENT GROSS VALUE									
COPPER									
TOTAL RECOVERABLE	0.34	0.42	(01)		7.50		0	01/14	COMP24
EFFLUENT GROSS VALUE									
CHROMIUM HEXAVALENT									
DISSOLVED (AS CR)	<0.302	<0.371	(01)		<8		0	01/14	DISCRT
EFFLUENT GROSS VALUE									
OIL AND GREASE									
03882 1 0 0									
EFFLUENT GROSS VALUE									
FLOW, IN CONDUIT OR									
THRU TREATMENT PLANT	12.250	13.920	(03)		<1250		0	01/30	DISCRT
60050 1 0 0									
EFFLUENT GROSS VALUE									
CHLORINE, TOTAL							0	CONTIN	METER
RESIDUAL									
50060 1 0 0									
EFFLUENT GROSS VALUE									
NAME / TITLE									
John M. Light									
Signature of PERSONAL EXECUTIVE OFFICER OR AUTHORIZED AGENT ELSAYYID IBRAHIM Signature of PERSONAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 520-261-1832 Telephone 14 04 27 Date									

SIGNATURE OF PERSONAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 Signature of statements true
 Chlorine is not used during our treatment process.

Month: April
Year: 2014

Permit No. AZ0025607
Pages 45 & 46

APPENDIX B AMMONIA DATA LOG

Date of Sample	Ammonia value in Effluent (mg/L N)	pH (In effluent)	Temperature (In effluent) (Celsius)	Ammonia Standard as determined from A.A.C. Title 18, Chapter 11, Article 1	Conductivity (mS/cm)
04/01/14	<1.0	7.16	22.15	3.33	764.8
04/08/14	<1.0	7.51	21.55	2.69	760.2
04/15/14	<1.0	7.25	22.55	3.13	757.6
04/22/14	<1.0	7.39	23.55	2.57	708.2
04/29/14	<1.0	7.15	23.15	2.92	739.5

Please copy and complete for each month of each year for permit term. Attach any additional pages as necessary.

Signature of Authorized Representative 



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

June 26, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed-Ex -- 7704 3813 0830

RE: Discharge Monitoring Report (DMR) for May 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - May 2014.

Please note that although we did not experience any exceedances during May, we are unable to report on Dissolved Chromium VI. Due to an oversight, reports from our contracted laboratory did not provide any data on the said parameter. Under the recently replaced old discharge permit we were not required to report this parameter. This is the first time we use this particular DMR Form which includes Dissolved Chromium VI. We notified the Laboratory and we shall be reporting Dissolved Chromium VI from June 2014 DMR. The results for Total Chromium VI during May 2014 was "Non-detect"

If you have any questions or comments, please contact me at (520) 281-1832.

Sincerely,

John M. Light
Nogales Area Operations Manager

Monthly E. coli Log

May 2014

Method	Sampling Date	Legend Lab Report Number	Results
E. coli, MPN/100 (WW-Colliert)	05/01/2014	4050081	<1
E. coli, MPN/100 (WW-Colliert)	05/02/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/03/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/04/2014	4050189	<1
E. coli, MPN/100 (WW-Colliert)	05/05/2014	4050267	<1
E. coli, MPN/100 (WW-Colliert)	05/06/2014	4050441	<1
E. coli, MPN/100 (WW-Colliert)	05/07/2014	4050573	<1
E. coli, MPN/100 (WW-Colliert)	05/08/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/09/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/10/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/11/2014	4050872	<1
E. coli, MPN/100 (WW-Colliert)	05/12/2014	4050921	<1
E. coli, MPN/100 (WW-Colliert)	05/13/2014	4051066	<1
E. coli, MPN/100 (WW-Colliert)	05/14/2014	4051193	<1
E. coli, MPN/100 (WW-Colliert)	05/15/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/16/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/17/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/18/2014	4051465	<1
E. coli, MPN/100 (WW-Colliert)	05/19/2014	4051515	<1
E. coli, MPN/100 (WW-Colliert)	05/20/2014	4051626	<1
E. coli, MPN/100 (WW-Colliert)	05/21/2014	4051774	<1
E. coli, MPN/100 (WW-Colliert)	05/22/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/23/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/24/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/25/2014	4052015	<1
E. coli, MPN/100 (WW-Colliert)	05/26/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/27/2014	4052086	<1
E. coli, MPN/100 (WW-Colliert)	05/28/2014	4052199	<1
E. coli, MPN/100 (WW-Colliert)	05/29/2014	4052306	<1
E. coli, MPN/100 (WW-Colliert)	05/30/2014		NO SAMPLE
E. coli, MPN/100 (WW-Colliert)	05/31/2014		NO SAMPLE



PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS

AZ020587
PERMIT NUMBER

001A
DISCHARGE #

FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 28 48.445 110 57 48.711

MONITORING PERIOD
YEAR | MO | DAY
2014 | 05 | 31
TO
YEAR | MO | DAY
2014 | 05 | 31

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. FREQUENCY EX OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	LIMITS	MINIMUM	AVERAGE	MAXIMUM			UNITS
TEMPERATURE 1 00010 Effluent gross value	24.18	26.20	C	21.30	24.18	26.20	C	0	2XMONTH DISCRT
PH 3 20040 Effluent gross value	7.27	7.42		7.12	7.27	7.42	8U	0	DAILY DISCRT
SUSPENDED SOLIDS 00630 Effluent gross value	168	355	KG/D	1.0	3.5	7.0	MG/L	0	WEEKLY COMPTA
AMMONIA NITROGEN 00610 Effluent gross value	46.9	50.8	KG/D	<1	<1	<1	MG/L	0	2XMONTH DISCRT
TOTAL CYANIDE 00720 Effluent gross value	195	203	G/D	<4	<4	<4	UG/L	0	1XWEEK DISCRT
TOTAL RECOVERABLE SELENIUM 00681 Effluent gross value	0.05	0.06	G/D	0.9	1.05	1.2	UG/L	0	1XWEEK COMPTA
TOTAL RECOVERABLE NICKEL 01074 Effluent gross value	1.932	2341	G/D	30	40	50	UG/L	0	1XWEEK COMPTA
TOTAL RECOVERABLE SILVER 01079 Effluent gross value	0.74	1.02	G/D	0.01	0.015	0.02	UG/L	0	1XWEEK COMPTA

EPA Form 3520-1 (Rev. 08-85) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PERMITTEE NAME/ADDRESS
(Include Facility Name/location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 06-31-1988

NAME John Light
ADDRESS

AZ0026607
PERMIT NUMBER

001A
DISCHARGE #

MONITORING PERIOD
YEAR (MO) DAY TO YEAR (MO) DAY
2014 05 01 TO 2014 05 31

FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 28 48.445 110 57 48.711

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

CONCENTRATION	UNIT	MEASUREMENT PERIOD	PERMIT REQUIREMENT	MONITORING PERIOD	CONCENTRATION	UNIT	MEASUREMENT PERIOD	PERMIT REQUIREMENT	MONITORING PERIOD	CONCENTRATION	UNIT	MEASUREMENT PERIOD	PERMIT REQUIREMENT	MONITORING PERIOD	CONCENTRATION	UNIT	MEASUREMENT PERIOD	PERMIT REQUIREMENT	MONITORING PERIOD	
51041	1	EFFLUENT gross value	0.02	0.03	93.78	101.52	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
71901	1	TOTAL RECOVERABLE MERCURY	0.02	0.03	93.78	101.52	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
80082	1	5-DAY CARBONACEOUS BOD 20C	98.87	99.09	98.87	99.09	98.56	98.87	99.09	98.56	98.87	99.09	98.56	98.87	99.09	98.56	98.87	99.09	98.56	98.87
91011	K	SUSPENDED (REMOVAL) SOLIDS	98.16	99.3	98.16	99.3	96.39	98.16	99.3	96.39	98.16	99.3	96.39	98.16	99.3	96.39	98.16	99.3	96.39	98.16

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Elsayyid Ibrahim
For/ John Light
Area Operations Manager

TELEPHONE 315832416406
DATE 2614

AREA NUMBER
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TYPED OR PRINTED

(REPLACES EPA FORM 7-40 WHICH MAY NOT BE USED.)



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

July 25, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via: Hand Delivered

RE: Self-Monitoring Report Form (SMRF) for 2nd Quarter 2014
Discharge Monitoring Report (DMR) for 2nd Quarter 2014
Discharge Monitoring Report (DMR) for June 2014

Permit: P-100620 Nogales International Wastewater Treatment Plant (NIWTP)
Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following SMRF and DMR Reports:

Aquifer Protection Permit # P-100620

Quarterly SMRF - 2nd quarter 2014.

Please find below a list of exceedances experienced along with respective explanations:

<u>Parameter</u>	<u>Reported</u>	<u>Permit Limit</u>
Rolling Geom. Mean Total Nitrogen - 12.56 mg/l (Dec - April)		Permit limit 10 mg/l
Rolling Geom. Mean Total Nitrogen - 12.37 mg/l (Jan - May)		Permit limit 10 mg/l
Rolling Geom. Mean Total Nitrogen - 12.08 mg/l (Feb - June)		Permit limit 10 mg/l

We have ordered additional mixers to address this problem; and expect these exceedances to be eliminated once the mixers are delivered and installed.

AZPDES- Permit # AZ0025607

Monthly DMR - June 2014 (pages 1 - 4).
Quarterly DMR - 2nd QRT - April 01 - June 30, 2014 (pages 5 - 14).

PERMITTEE NAME/ADDRESS
(include Facility Name, Location & address)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
CMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.465 110 57 48.711

AGENCY PERMIT NUMBER
INFA DISCHARGE #
MONITORING PERIOD
YEAR/MON/DAY 2014/06/01 TO YEAR/MON/DAY 2014/06/01

Y
NO DISCHARGE

NOTE: Read instructions before completing this form

PARAMETER	QUANTITY OR CONCENTRATION			LIMITS	UNIT	FREQ. OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM				
SUSPENDED SOLIDS 00330 Flow Sewage Influent	9828	10433	1.94	205	MGL	WEEKLY	COMPOUND
5-DAY CARBONACEOUS BOD 20C 00082 Flow Sewage Influent	8004	9258	140	167	MGL	WEEKLY	COMPOUND
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Elsayyid Ibrahim For/ John Light Area Operations Manager						
COMMENT AND EXPLANATION OF ANY VIOLATIONS (reference all attachments here)	TYPED OR PRINTED						
TELEPHONE	9158324164 07 24 14						
DATE	2014 06 01						
AREA NUMBER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1999

NAME John Light

ADDRESS
AD000007
PERMIT NUMBER

001A
DISCHARGE #

Y

FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT

LOCATION 31 28 48.445 110 57 48.711

MONITORING PERIOD
YEAR (MO)DAY TO YEAR (MO)DAY
20140601 20140630

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

CONDUIT OR PLANT FLOW	SAMPLE MEASUREMENT PERIOD	2219.4 MON AVG	2488.7 DAILY MX	G/D	40	45	50	UG/L	1X2WEEK COMP
TOTAL RECOVERABLE ZINC									
01004									
Effluent gross value									
TOTAL RECOVERABLE CADMIUM									
01118									
Effluent gross value									
TOTAL RECOVERABLE LEAD									
01114									
Effluent gross value									
TOTAL RECOVERABLE CHROMIUM									
01118									
Effluent gross value									
TOTAL RECOVERABLE COPPER									
01119									
Effluent gross value									
DISSOLVED CHROMIUM VI									
01220									
Effluent gross value									
IN CONDUIT OR PLANT FLOW									
50050									
Effluent gross value									
TOTAL RESIDUAL CHLORINE (MAX)									
50050									
Effluent gross value									

EPA Form 3320-1 (Rev. 08-85) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

August 27, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed-Ex – 7709 6626 4916

RE: Discharge Monitoring Report (DMR) for July 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - July 2014.

If you have any questions or comments, please contact me at (520) 281-1832.

Sincerely

John M. Light
Nogales Area Operations Manager

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light

ADDRESS PO BOX 4063

(865 RIO RICO Industrial Park)

RIO RICO, AZ 85648-4063

FACILITY NOGALES INTERNATIONAL WASTEWATER

TREATMENT PLANT

LOCATION 312848.46 1105748.711

PERMIT NUMBER
AZ000007

MONITORING PERIOD

YEAR (MO/DAY) TO YEAR (MO/DAY)
2014/07/01 TO 2014/07/31

INFA DISCHARGE?

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	UNITS			
00030 SUSPENDED SOLIDS G Raw Sewage Influent	12835	25973	KG/DAY	130.0	269.7	MGL	0	WEEKLY	
80082 5-DAY CARBONACEOUS BOD 20C G Raw Sewage Influent	6258	7565	KG/DAY	105	140	MGL	0	WEEKLY	
<p>GROUP UNDER FACILITY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CHILLED RESEARCH, PROPERLY COLLECTED AND EVALUATE THE INFORMATION IS OBTAINED. BASED ON MY KNOWLEDGE OF THE FACTS OR PERSONS WHO MANAGE THE SYSTEM OR THESE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE EMPLOYEES PERSONNEL FOR OBTAINING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPROVEMENT FOR SUCH VIOLATIONS.</p>									
<p>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Elsayyid Ibrahim For/ John Light Area Operations Manager</p>							<p>TELEPHONE 915-832-4164</p>		<p>DATE 14 0827</p>
<p>TYPED OR PRINTED</p>							<p>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</p>		<p>AREA NUMBER YEAR</p>
<p>COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all submissions here)</p>									

PERMITTEE NAME/ADDRESS
(Include Facility Name, Location & Effluent)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1988

NAME John Light
ADDRESS PO Box 4063
(865 Rio Rico Industrial Park)
Rio Rico, AZ 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.445 110 57 48.711

PERMIT NUMBER 20140701
MONITORING PERIOD YEAR/MON/DAY 2014/07/31
TO YEAR/MON/DAY 2014/07/31
DISCHARGE # 001A

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

SAMPLE MEASUREMENT	REQUIREMENT	GPD	MON AVG	DAILY MAX	MON AVG	DAILY MAX	UGAL	1X2WEEK	COMPTA	
										2014
TOTAL RECOVERABLE ZINC 01004 Effluent gross value	2400	2394	2240	2394	46.67	50.0	UGAL	0	COMPTA	
TOTAL RECOVERABLE CADMIUM 01113 Effluent gross value	180	9.58	4.78	9.58	0.10	0.20	UGAL	0	COMPTA	
TOTAL RECOVERABLE LEAD 01114 Effluent gross value	210	15.85	11.43	15.85	0.23	0.30	UGAL	0	COMPTA	
TOTAL RECOVERABLE CHROMIUM 01118 Effluent gross value	800	143.6	112.6	143.6	2.3	3.0	UGAL	0	COMPTA	
TOTAL RECOVERABLE COPPER 01119 Effluent gross value	640	476	388	476	8.0	9.0	UGAL	0	COMPTA	
DISSOLVED CHROMIUM VI 01220 Effluent gross value	1840	17.71	13.82	17.71	13.82	17.71	000 mg/d	0	CONTUS METER	
IN CONDUIT OR PLANT FLOW 50050 Effluent gross value	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	UGAL	0	DAILY DISCHRT	
TOTAL RESIDUAL CHLORINE (MAX) 50080 Effluent gross value	800	15	10	15	MON AVG	DAILY MAX	MON AVG	DAILY MAX	MON AVG	DAILY MAX

EPA Form 3020-1 (Rev. 09-89) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

Month: July
Year: 2014

Permit No. AZ0025607
Pages 45 & 46

APPENDIX B AMMONIA DATA LOG

Date of Sample	Ammonia value in Effluent (mg/L N)	pH (In effluent)	Temperature (In effluent) (Celsius)	Ammonia Standard as determined from A.A.C. Title 18, Chapter 11, Article 1	Conductivity (mS/cm)
07/01/2014	1.83	7.54	28.7	1.83	728.4
07/08/2014	1.98	7.44	27.5	1.98	619.6
07/15/2014	2.13	7.32	27.5	2.13	699.1
07/22/2014	2.13	7.25	28.1	2.13	701.1
07/28/2014	2.13	7.28	27.2	2.13	672.1

Please copy and complete for each month of each year for permit term. Attach any additional pages as necessary.

Signature of Authorized Representative 



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

September 25, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed Ex - 7712 8008 7967

RE: Discharge Monitoring Report (DMR) for August 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - August 2014.

If you have any questions or comments, please contact me at (520) 281-1832.

Sincerely,

John M. Light
Nogales Area Operations Manager

cc:
John Light, USIBWC, Nogales
Liliana Christophe, USPEA Region 9
William Ellett, ADEQ, Tucson
Joy Herr-Cardillo, ACLPI
Carlos Pena, USIBWC, El Paso
Jose A. Nunez, USIBWC, El Paso
Wayne Belzer, USIBWC, El Paso
Luis Hernandez, USIBWC, El Paso
Elsayyid Ibrahim, USIBWC, El Paso
Alejandro Barcenas, City of Nogales
Shane Dille, City of Nogales
Spencer Smith, City of Nogales

NOG/EI/arl/2110-14

PERMITTEE NAME/ADDRESS
(Include Facility Name, location if different)

NAME John Light

ADDRESS PO BOX 4063
(865 Rio Rico Industrial Park)
Rio Rico, AZ 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 312848.445 110 57 48.711

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

A20020007		INFA	
PERMIT NUMBER		DISCHARGE #	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2014	08	01	2014
TO		MO	
		DAY	
		2014	
		08	
		31	

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX. OF ANALYSIS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM				
00030 SUSPENDED SOLIDS Raw Sewage Influent	9750	14,390	60	136.5	192		MGAL	0	WEEKLY	COMP24
00082 5-DAY CARBONACEOUS BOD 20C Raw Sewage Influent	6227	10,642	60	88	142		MGAL	0	WEEKLY	COMP24
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Elsayyid Ibrahim For/ John Light Area Operations Manager TYPED OR PRINTED										
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)										
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Elsayyid Ibrahim							TELEPHONE 915 832 4164		DATE 14 0925	
AREA NUMBER SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA NUMBER 4164		YEAR M O N Y A R	

PERMITTEE NAME/ADDRESS
(Include Facility Name, location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approved expires 06-31-1999

NAME John Light
ADDRESS PO Box 4063
(865 Rio Rico Industrial Park)
Rio Rico, AZ 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.445 110 57 48.711

AZM22807		001A	
PERMIT NUMBER		DISCHARGE #	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2014	08	01	2014
TO		TO	
2014		08	
01		31	

Y

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

SAMPLE MEASUREMENT	PERMIT REQUIREMENT	263	300	G0	30	35	40	UGL	0	1X2WEEK	COMPL
TOTAL RECOVERABLE ZINC											
01094 Effluent gross value		263	300	G0			40		0		
		263	300	G0			40		0		
TOTAL RECOVERABLE CADMIUM											
01113 Effluent gross value		2.6	3.0	G0	0.03	0.035	0.04		0		COMPL
		2.6	3.0	G0	0.03	0.035	0.04		0		COMPL
TOTAL RECOVERABLE LEAD											
01114 Effluent gross value		11.3	15.0	G0	0.1	0.15	0.2		0		COMPL
		11.3	15.0	G0	0.1	0.15	0.2		0		COMPL
TOTAL RECOVERABLE CHROMIUM											
01116 Effluent gross value		75.3	75.7	G0	1	1	1		0		COMPL
		75.3	75.7	G0	1	1	1		0		COMPL
TOTAL RECOVERABLE COPPER											
01119 Effluent gross value		452	454	G0	6	6	6		0		COMPL
		452	454	G0	6	6	6		0		COMPL
UNRESOLVED CHROMIUM VI											
01220 Effluent gross value		MODI (B)	NODI (B)	G0	NODI (B)	NODI (B)	NODI (B)		0		DISCRT
		MODI (B)	NODI (B)	G0	NODI (B)	NODI (B)	NODI (B)		0		DISCRT
IN CONDUIT OR PLANT FLOW											
00060 Effluent gross value		18.27	21.11	M0D	14.19	18.27	21.11	000	0		CONTUS
		18.27	21.11	M0D	14.19	18.27	21.11	000	0		CONTUS
TOTAL RESIDUAL CHLORINE (MAX)											
00080 Effluent gross value		950	980	G0	NODI (9)	NODI (9)	NODI (9)		0		DAILY
		950	980	G0	NODI (9)	NODI (9)	NODI (9)		0		DAILY

EPA Form 3320-1 (Rev. 08-85) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

Month: August
 Year: 2014

Permit No. AZ0025607
 Pages 45 & 46

APPENDIX B AMMONIA DATA LOG

Date of Sample	Ammonia value in Effluent (mg/L N)	pH (In effluent)	Temperature (In effluent) (Celsius)	Ammonia Standard as determined from A.A.C. Title 18, Chapter 11, Article 1	Conductivity (mS/cm)
8/5/2014	<1	7.30	27.0	2.42	686.1
8/12/2014	<1	7.31	27.6	2.42	676.5
8/19/2014	<1	7.23	26.8	2.57	676.1
8/26/2014	<1	7.83	25.40	1.52	642.3

Please copy and complete for each month of each year for permit term. Attach any additional pages as necessary.

Signature of Authorized Representative *Alto Bryant*



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

October 27, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed Ex - 7716 3233 3482

RE: Self-Monitoring Report Form (SMRF) for 3rd Quarter 2014
Discharge Monitoring Report (DMR) for 3rd Quarter 2014
Discharge Monitoring Report (DMR) for September 2014

Permit: P-100620 Nogales International Wastewater Treatment Plant (NIWTP)
Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following SMRF and DMR Reports:

Amifer Protection Permit # P-100620

Quarterly SMRF - 3rd quarter 2014.

Please find below a list of exceedances experienced along with respective explanations:

<u>Parameter</u>	<u>Reported</u>	<u>Permit Limit</u>
Rolling Geom. Mean Total Nitrogen - 11.78 mg/l (March - July)		Permit limit 10 mg/l
Rolling Geom. Mean Total Nitrogen - 10.96 mg/l (April - August)		Permit limit 10 mg/l

As stated in our July 25th letter, we have ordered additional mixers to address this problem; and expect these exceedances to be eliminated once the mixers are delivered and installed. Currently the expected delivery of the said mixers is mid December 2014

AZPDES- Permit # AZ0025607

Monthly DMR - September 2014 (pages 1 - 4).
Quarterly DMR - 3rd QRT - July 01 - September 30, 2014 (pages 5 - 14).

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS PO Box 4063
(865 Rio Rico Industrial Park)
Rio Rico, Arizona 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.445 110 57 48.711

AZ0025607		INFA	
PERMIT NUMBER		DISCHARGE #	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2014	09	01	2014
TO		MO	
		DAY	
		2014	
		09	
		30	

Y

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX OF ANALYSIS	FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SUSPENDED SOLIDS 00530 G Raw Sewage Influent			000	56.0	84.8	MGL	0	WEEKLY	COMP24
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	REPORT MON AVG	REPORT WKLY AVG	*****			
5-DAY CARBONACEOUS BOD 20C 90082 G Raw Sewage Influent			000	32.0	56.0	MGL	0	WEEKLY	COMP24
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	REPORT MON AVG	REPORT WKLY AVG	*****			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Elsayyid Ibrahim For/ John Light Area Operations Manager TYPED OR PRINTED									
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION AND ALL SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.									
				Elsayyid Ibrahim		915 832-4164		2014 10 24	
				updated on		AREA NUMBER		Y M D E O A A R N Y	
				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS PO Box 4063
(865 Rio Rico Industrial Park)
Rio Rico, Arizona 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.445 110 57 48.711

AZ0025607	001A	
PERMIT NUMBER	DISCHARGE #	
MONITORING PERIOD		
YEAR	MO	DAY
2014	09	30
TO		
YEAR	MO	DAY
2014	09	30

Y

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

SAMPLE MEASUREMENT	PERMIT REQUIREMENT	MON AVG	DAILY MX	G/D	MON AVG	DAILY MX	UG/L	1X2WEEK	COMP24
TOTAL RECOVERABLE ZINC	1	239.5	250.3	G/D	30.0	30.0	0		
Effluent gross value		8480	21500		130	330			
TOTAL RECOVERABLE CADMIUM	1	2.4	2.5	G/D	0.03	0.03	0		
Effluent gross value		150	350		2.3	5.4			
TOTAL RECOVERABLE LEAD	1	15.6	22.9	G/D	0.2	0.3	0		
Effluent gross value		210	420		3.2	8.4			
TOTAL RECOVERABLE CHROMIUM	1	55.5	61.0	G/D	0.7	0.8	0		
Effluent gross value		6500	9500		100	146			
TOTAL RECOVERABLE COPPER	1	482.5	584.1	G/D	6.0	7.0	0		
Effluent gross value		640	1300		9.8	20			
DISSOLVED CHROMIUM VI	1	<319	<334	G/D	<4.0	<4.0	0		
Effluent gross value		520	1040		8	16			
IN CONDUIT OR PLANT FLOW	1	20.14	25.60	MGD			000		
Effluent gross value		REPORT	REPORT						
TOTAL RESIDUAL CHLORINE (MAX)	1	NO DI (g)	NO DI (g)	G/D	NO DI (g)	NO DI (g)	UG/L		
Effluent gross value		650	980		10	15			

EPA Form 3320-1 (Rev. 09-95) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

November 26, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed Ex – 7720 0551 9918

RE: Discharge Monitoring Report (DMR) for October 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - October 2014.

If you have any questions or comments, please contact me at (520) 281-1832.

Sincerely,

John M. Light
Nogales Area Operations Manager

cc:
Liliana Christophe, USPEA Region 9
William Ellett, ADEQ, Tucson
Joy Herr-Cardillo, ACLPI
Carlos Pena, USIBWC, El Paso
Jose A. Nunez, USIBWC, El Paso
Wayne Belzer, USIBWC, El Paso
Luis Hernandez, USIBWC, El Paso
Elsayyid Ibrahim, USIBWC, El Paso
Alejandro Barcenas, City of Nogales
Shane Dille, City of Nogales
Spencer Smith, City of Nogales

PERMITTEE NAME/ADDRESS
(include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS PO BOX 4063
(865 Rio Rico Industrial Park)
Rio Rico, AZ 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 28 48.445 110 57 48.711

AZ0025907
PERMIT NUMBER

YEAR MO DAY TO YEAR MO DAY
2014 01 01 2014 01 31

INFA DISCHARGE #

MONITORING PERIOD

Y

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. OF ANALYSES	FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE				
SUSPENDED SOLIDS 00530 Raw Sewage Influent	7094	17891	50	105	MGL	0	WEEKLY	COMP24
5-DAY CARBONACEOUS BOD 20C 20042 Raw Sewage Influent	4683	5882	59	74.5	MGL	0	WEEKLY	COMP20
<p>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Elsayyid Ibrahim For/ John Light Area Operations Manager</p> <p>TELEPHONE 915 832 4164</p> <p>DATE 14 Nov 26, 2014</p> <p>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>[Signature]</i></p>								
<p>COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)</p> <p>TYPED OR PRINTED</p>								

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SUBSTANTIAL PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR RECURRING VIOLATIONS.

PERMITTEE NAME/ADDRESS
(include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0064
Approval expires 06-31-1998

NAME John Light
ADDRESS PO Box 4063
(865 Rio Rico Industrial Park)
Rio Rico, AZ 85648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.445 110 57 48.711

PERMIT NUMBER: AZ0005907
DISCHARGE #: 001A

MONITORING PERIOD
YEAR: 2014
MO: 01
DAY: 01

TO
YEAR: 2014
MO: 01
DAY: 01

Y
NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	UNIT	30	35	40	1X2WEEK	COMPTA
TOTAL RECOVERABLE ZINC	G/D	2376	2587	30	35	40
01084						
Effluent gross value		8460	21800		130	330
		MON AVG	DAILY MX		MON AVG	DAILY MX
TOTAL RECOVERABLE CADMIUM	G/D	1.37	1.44	0.02	6.02	0.02
01113						
Effluent gross value		180	350		2.3	5.4
		MON AVG	DAILY MX		MON AVG	DAILY MX
TOTAL RECOVERABLE LEAD	G/D	6.8	7.2	0.1	0.1	0.1
01114						
Effluent gross value		210	420		3.2	8.4
		MON AVG	DAILY MX		MON AVG	DAILY MX
TOTAL RECOVERABLE CHROMIUM	G/D	137	144	2.4	2.0	2.0
01118						
Effluent gross value		6000	9500		100	148
		MON AVG	DAILY MX		MON AVG	DAILY MX
TOTAL RECOVERABLE COPPER	G/D	410	433	6.0	6.0	6.0
01119						
Effluent gross value		640	1300		9.8	20
		MON AVG	DAILY MX		MON AVG	DAILY MX
DISSOLVED CHROMIUM VI	G/D	<274	<289	<4	<4	<4
01220						
Effluent gross value		520	1040		8	18
		MON AVG	DAILY MX		MON AVG	DAILY MX
IN CONDUIT OR PLANT FLOW	MGD	17.34	21.6	9.66	17.34	21.6
50050						
Effluent gross value		REPORT	REPORT			
		MON AVG	DAILY MX			
TOTAL RESIDUAL CHLORINE (MAX)	G/D	NODI (9)				
50060						
Effluent gross value		650	850		10	16
		MON AVG	DAILY MX		MON AVG	DAILY MX



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

December 18, 2014

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via Fed Ex – 7723 0089 1838

RE: Discharge Monitoring Report (DMR) for November 2014

Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following DMR Report:

AZPDES- Permit # AZ0025607

Monthly DMR - November 2014.

If you have any questions or comments, please contact me at (520) 281-1832.

Sincerely,

John M. Light
Nogales Area Operations Manager

cc:
Liliana Christophe, USPEA Region 9
William Ellett, ADEQ, Tucson
Joy Herr-Cardillo, ACLPI
Carlos Pena, USIBWC, El Paso
Jose A. Nunez, USIBWC, El Paso
Wayne Belzer, USIBWC, El Paso
Luis Hernandez, USIBWC, El Paso
Elsayyid Ibrahim, USIBWC, El Paso
Alejandro Barcenaa, City of Nogales
Shane Dille, City of Nogales
Spencer Smith, City of Nogales

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS PO Box 4063
(865 Rio Rico Industrial Park)
R10 Rico, AZ 84648-4063
FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 28 48.445 110 57 48.711

AZ0025807
PERMIT NUMBER

001A
DISCHARGE #

MONITORING PERIOD
YEAR MO DAY TO YEAR MO DAY
201 1 01 2014 1 30

Y

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	SAMPLE MEASUREMENT		QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. OF ANALYSIS	FREQUENCY	SAMPLE TYPE
	MEASUREMENT	PERMIT REQUIREMENT	AVERAGE	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TEMPERATURE 1				000						
1										
Effluent gross value										
PH 3										
00400										
1										
Effluent gross value										
SUSPENDED SOLIDS										
00530										
1										
Effluent gross value										
AMMONIA NITROGEN										
00810										
1										
Effluent gross value										
TOTAL CYANIDE										
00720										
1										
Effluent gross value										
TOTAL RECOVERABLE SELENIUM										
00981										
1										
Effluent gross value										
TOTAL RECOVERABLE NICKEL										
01074										
1										
Effluent gross value										
TOTAL RECOVERABLE SILVER										
01079										
1										
Effluent gross value										

EPA Form 3320-1 (Rev. 08-95) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NAME John Light
 ADDRESS PO BOX 4063
 (865 Rio Rico Industrial Park)
 Rio Rico, AZ 85648-4063
 FACILITY NOGALES INTERNATIONAL WASTEWATER
 TREATMENT PLANT
 LOCATION 31 28 48.445 110 57 48.711

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

Form Approved
 OMB No. 2040-0004
 Approval Expires 05-31-1986

PERMIT NUMBER: AZ0025807
 DISCHARGE #: 001A
 MONITORING PERIOD
 YEAR MO/DAY TO YEAR MO/DAY
 201 11/01 TO 2014 11/30
 NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

SAMPLE MEASUREMENT	REQUIREMENT	000	MON (R) MOD (B)		CPU	WEEKLY	DISCRT
			MON AVG	DAILY MAX			
51041 Effluent gross value							
TOTAL RECOVERABLE MERCURY							
71901 Effluent gross value			0.073	0.05	0.0012	0.0013	
5-DAY CARBONACEOUS BOD 20C							
80082 Effluent gross value			115	144	2	2	
5-DAY CARBONACEOUS BOD (% REMOVAL)							
80081 Percent Removal			96.55	96.55			
SUSPENDED (%REMOVAL) SOLIDS							
81011 Percent Removal			97.75	97.75			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Elsayyid Ibrahim For/ John Light Area Operations Manager TYPED OR PRINTED							
CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE			
Elsayyid Ibrahim		915 832		14 1218			
For/ John Light		4164		AREA NUMBER		Y E O A R M D	
Area Operations Manager				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		N O N Y	
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)							



INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
OPERATIONS AND MAINTENANCE DIVISION
NOGALES FIELD OFFICE

January 28, 2015

Water Quality Data Unit
Arizona Department of
Environmental Quality
1110 W. Washington St.
Phoenix, Az. 85007

Sent via – Hand Delivered

Self-Monitoring Report Form (SMRF) for 4th Quarter 2014
Discharge Monitoring Report (DMR) for December 2014
Discharge Monitoring Report (DMR) for 4th Quarter 2014
Discharge Monitoring Report (DMR) – Annual for 2014

Permit: P-100620 Nogales International Wastewater Treatment Plant (NIWTP)
Permit: AZ0025607 Nogales International Wastewater Treatment Plant (NIWTP)

Dear Water Quality Data Unit:

Please find enclosed the following SMRF and DMR Reports:

Aquifer Protection Permit # P-100620

Quarterly SMRF - 4th quarter 2014.

Please find below a list of exceedances experienced along with respective explanations:

<u>Parameter</u>	<u>Reported</u>	<u>Permit Limit</u>
Rolling Geom. Mean Total Nitrogen - 10.216 mg/l (June - October)	10.216 mg/l	Permit limit 10 mg/l.
Rolling Geom. Mean Total Nitrogen - 10.153 mg/l (July - Nov)	10.153 mg/l	Permit limit 10 mg/l.
Rolling Geom. Mean Total Nitrogen - 10.193 mg/l (Aug - Dec)	10.193 mg/l	Permit limit 10 mg/l.

As stated in our letters of July 25th and November 26th 2014, we have ordered additional mixers to address this problem. Our current target date to complete the installation of those mixers is end of May 2015. Since the Nitrogen is reported on a five months rolling geometric mean, we expect to see the results by the end of 2015.

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1998

NAME John Light
ADDRESS

PERMIT NUMBER
A20026007

INFA DISCHARGE #
MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
2014 12 01 2014 12 31

FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 31 26 48.445 110 57 48.711

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SUSPENDED SOLIDS 00530 Raw Sewage Influent			000	110	156.8	MG/L	6	WEEKLY	COMP24
5-DAY CARBONACEOUS BOD 20C 80082 Raw Sewage Influent			000	72	103.0	MG/L	0	WEEKLY	COMP24
<p>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER John Light Area operations Manager</p> <p>TELEPHONE 915 832-4164 DATE 2015 01 27</p> <p>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT El Sayed Ibrahim Feb/John Light</p>									
<p>COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)</p> <p>TYPED OR PRINTED</p>									

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL, PROPERLY TRAINED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY KNOWLEDGE OF THE PERSONS OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

PERMITTEE NAME/ADDRESS
(Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Approval expires 05-31-1988

NAME John Light
ADDRESS

AZ0028007
PERMIT NUMBER

001A
DISCHARGE #

Y

MONITORING PERIOD
YEAR MO/DAY TO YEAR MO/DAY
2014 12 01 2014 12 31

FACILITY NOGALES INTERNATIONAL WASTEWATER
TREATMENT PLANT
LOCATION 81 26 48.445 110 57 48.711

NO DISCHARGE

NOTE: Read Instructions Before Completing This Form

CONDUIT OR PLANT FLOW	SAMPLE MEASUREMENT	PERMIT REQUIREMENT	G/D	MONITORING PERIOD		UG/L	1X2WEEK	COMPTA
				MON AVG	DAILY MX			
TOTAL RECOVERABLE ZINC	1	2554	2801	46.67	50.00	0		
Effluent gross value		8400	21600	190	380			
TOTAL RECOVERABLE CADMIUM	1	3.48	5.00	0.06	0.09	0		
Effluent gross value		180	360	2.3	5.4			
TOTAL RECOVERABLE LEAD	1	9.16	16.66	0.17	0.30	0		
Effluent gross value		310	420	3.2	6.4			
TOTAL RECOVERABLE CHROMIUM	1	129	244	2.3	4.0	0		
Effluent gross value		6500	9600	100	146			
TOTAL RECOVERABLE COPPER	1	402	504	7.3	9.0	0		
Effluent gross value		840	1300	8.8	20			
DISSOLVED CHROMIUM VI	1	<218	<224	<4.0	<4.0	0		
Effluent gross value		820	1040	8	16			
IN CONDUIT OR PLANT FLOW	1	12.96	14.92			000		
Effluent gross value		REPORT	REPORT					
TOTAL RESIDUAL CHLORINE (MAX)	1	NODI(9)	NODI(9)	NODI(9)	NODI(9)	UG/L		
Effluent gross value		880	880	10	16			

EPA Form 3320-1 (Rev. 09-85) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)



WCTSMRFMONEXC

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

11/04/2014

10:41 AM

AZURITE - WCT Results

SMRF Violations Report

For report received by ADEQ on: 04/26/2013

Report due date: 04/30/2013

Report period beginning on: 01/01/2013 and ending on: 06/30/2014

Facility Name: 1003 NOGALES, CITY OF - INTERNATIONAL WWTP 100620

Report Frequency: QUARTERLY

Permit: 46556 APP, Individual Permit, Significant Amendment, No Public Hearing

MONITORING POINT	SAMP FREQ	RPT		SAMPLE DATE	PARAMETER	DISCH. LIMIT	AQL LIMIT	ALERT LIMIT	CONC. RPT	S-NSP RSLT	NON-COMP	A. PROS	NODI
		BEGIN DATE	RPT END DATE										
18634 AZPDES DP TO SANTA CRUZ RIVER	MNT	01/01/2013	03/31/2013	03/31/2013	\$ SMP, ROLLING GEO MEAN TOTAL NITROGEN	10		9	12.90		Technical Review Criteria (Trc)		
	MNT	01/01/2013	03/31/2013	01/31/2013	5 SMP, ROLLING GEO MEAN TOTAL NITROGEN	10		9	12.22		Technical Review Criteria (Trc)		
	MNT	01/01/2013	03/31/2013	02/28/2013	5 SMP, ROLLING GEO MEAN TOTAL NITROGEN	10		9	12.75		Technical Review Criteria (Trc)		
18639 FACILITY INSPECTION	WKL	01/01/2013	03/31/2013		TREATMENT PLANT COMP						Technical Review Criteria (Trc)		
	WKL	01/01/2013	03/31/2013		PUMP INTEGRITY						Technical Review Criteria (Trc)		



WCTSMRFMONEXC

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

AZURITE - WCT Results

SMRF Violations Report

11/04/2014 10:41 AM

For report received by ADEQ on: 04/28/2014
 Report due date: 04/30/2014

Report period beginning on: 01/01/2013 and ending on: 06/30/2014

Facility Name: 1003 NOGALES, CITY OF - INTERNATIONAL WWTP 100620

Report Frequency: QUARTERLY

Permit: 46556 APP, Individual Permit, Significant Amendment, No Public Hearing

MONITORING POINT	SAMP FREQ	RPT BEGIN DATE	RPT END DATE	SAMPLE DATE	PARAMETER	DISCH. LIMIT	AQL. LIMIT	ALERT LIMIT	CONC RPT	8-ANSP RSLT	NON COMP	A. PROB	NOOI
18634 AZPDES DP TO SANTA CRUZ RIVER	MNT	01/01/2014	03/31/2014	03/14/2014	5 SMP. ROLLING GEO MEAN TOTAL NITROGEN	10		9	12.127		Technical Review Criteria (Tr)		
	MNT	01/01/2014	03/31/2014	01/02/2014	5 SMP. ROLLING GEO MEAN TOTAL NITROGEN	10		9	10.325		Discharge Level Exceedance (Div)		
	MNT	01/01/2014	03/31/2014	02/04/2014	5 SMP. ROLLING GEO MEAN TOTAL NITROGEN	10		9	11.447		Discharge Level Exceedance (Div)		



WCTSMRPHONEXC

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

AZURITE - WCT Results

SMRF Violations Report

11/04/2014

10:41 AM

For report received by ADEQ on: 04/28/2014
 Report due date: 04/30/2014

Report period beginning on: 01/01/2013 and ending on: 06/30/2014

Facility Name: 1003 NOGALES, CITY OF - INTERNATIONAL WWTP 100620

Report Frequency: QUARTERLY

Permit: 46556 APP, Individual Permit, Significant Amendment, No Public Hearing

MONITORING POINT	SAMP FREQ	RPT BEGIN DATE	RPT END DATE	SAMPLE DATE	PARAMETER	DISCH. LIMIT	AQL LIMIT	ALERT LIMIT	CONC RPT	S-INSP RSLT	NON COMP	A. PROB	NODI
18638 GW - 1800FT NW OF AZPDES EFF DP - SMP PT 5	MNT	01/01/2014	03/31/2014		TOTAL KJELDAHL NITROGEN						Missing Parameter in SMRF		
MONITORING POINT	SAMP FREQ	RPT BEGIN DATE	RPT END DATE	SAMPLE DATE	PARAMETER	DISCH. LIMIT	AQL LIMIT	ALERT LIMIT	CONC RPT	S-INSP RSLT	NON COMP	A. PROB	NODI
136576 GW - N/E SIDE OF WTP - SMP PT 3	QTR	01/01/2014	03/31/2014	03/13/2014	PH(FIELD)				7.2		Not In Ph Range		



WCTSMRFMONEXC

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
 AZURITE - WCT Results
 SMRF Violations Report

11/04/2014

10:41 AM

For report received by ADEQ on: 04/28/2014
 Report due date: 07/30/2014

Report period beginning on: 01/01/2013 and ending on: 06/30/2014

Facility Name: 1003 NOGALES, CITY OF - INTERNATIONAL WWTP 100620

Report Frequency: TWICE YEARLY

Permit: 46556 APP, Individual Permit, Significant Amendment, No Public Hearing

MONITORING POINT	SAMP FREQ	RPT BEGIN DATE	RPT END DATE	SAMPLE DATE	PARAMETER	DISCH. LIMIT	AQL LIMIT	ALERT LIMIT	CONC RPT	S-ANSP RESULT	NON COMP	A. PROS	NODI
18638 GW - 1800FT NW OF AZPDES EFF DP - SMP PT 5	2Y	01/01/2014	06/30/2014		MONOCHLORO BENZENE		.1	.08			Missing Parameter (has Aql Limit In The Requirements = Aql Violation) Missing Parameter (has Only Alert Level Limit In The Requirements)		
	2Y	01/01/2014	06/30/2014		DICHLOROMETHANE (MGL)		.005	.004			Missing Parameter (has Aql Limit In The Requirements = Aql Violation) Missing Parameter (has Only Alert Level Limit In The Requirements)		
	2Y	01/01/2014	06/30/2014		PARA-DICHLORO BENZENE		.075	.06			Missing Parameter (has Only Alert Level Limit In The Requirements) Missing Parameter (has Aql Limit In The Requirements = Aql Violation)		
	2Y	01/01/2014	06/30/2014		O-DICHLORO BENZENE		.6	.48			Missing Parameter (has Only Alert Level Limit In The Requirements) Missing Parameter (has Aql Limit In The Requirements = Aql Violation)		
	2Y	01/01/2014	06/30/2014		TRANS-1,2-DICHLORO ETHYLENE		.1	.08			Missing Parameter (has Aql Limit In The Requirements = Aql Violation) Missing Parameter (has Only Alert Level Limit In The Requirements)		



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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

11/04/2014

10:45 AM

AZURITE - WCT Results

SMRF Violations Report

For report received by ADEQ on: 10/28/2014

Report due date: 10/30/2014

Report period beginning on: 06/01/2014 and ending on: 10/01/2014

Facility Name: 1003 NOGALES INTERNATIONAL WASTEWATER TREATMENT PLANT 100620

Report Frequency: QUARTERLY

Permit: 60617 APP, Individual Permit, Minor Amendment

MONITORING POINT	SAMP FREQ	RPT BEGIN DATE	RPT END DATE	SAMPLE DATE	PARAMETER	DISCHL LIMIT	AQL LIMIT	ALERT LIMIT	CONC RPT	SAMP RESULT	NON COMP	A+ PROS	NODI
18834 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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18634 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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18834 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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18634 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = TrcDiv Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = TrcDiv Violation)		
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18634 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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MONITORING POINT	SAMP FREQ	RPT BEGIN DATE	RPT END DATE	SAMPLE DATE	PARAMETER	DISCH. LIMIT	AQL LIMIT	ALERT LIMIT	CONC. RPT	S-NSP RSLT	NON COMP	A. PROB	NODI
18634 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COU	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COU	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
	DLY	07/01/2014	09/30/2014		E. COU	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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18634 AZPDES DP TO SANTA CRUZ RIVER	DLY	07/01/2014	09/30/2014		E. COLI	15					Missing Parameter (Has Discharge Limit In The Requirements = Trc/Div Violation)		
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Attachment 1

4th Quarter of 2013 and 1st Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP) Pretreatment Report

The NIWTP discharge to the Santa Cruz River is permitted under the National Pollutant Discharge Elimination System (NPDES) in accordance with the United States Clean Water Act. The plant is also permitted by the State of Arizona Ground Water Quality Aquifer Protection Permit (APP). The NPDES permit requires that the United States Section, International Boundary and Water Commission (USIBWC), provide associate data and plant operation information to Mexico.

The NPDES permit contains border and influent Maximum Allowable Headworks Allocation (MAHA) objectives that are based on recommendations in the Development of Headworks Allocations for the Nogales International Wastewater Treatment Plant, dated April 2009 and was provided to the Mexican Section and presented at the binational technical committee meetings. The NIWTP completes quarterly water quality monitoring of the primary pollutants of concern identified in this report. In accordance with the NPDES permit, the NIWTP conducts 30-day quarterly sampling of the pollutants of concern.

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 4th quarter of 2013 and the 1st quarter of 2014: **chromium, copper, nickel, and zinc** were present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Figure 1 presents the distribution of flow between the United States (U.S.) and Mexico for each day samples were collected. U.S. flows were computed by subtracting border flows from the total influent flows. The mass contributions for the border, cities, and the NIWTP influent were compared with the MAHA objectives. Results of the evaluations of data collected during the 4th quarter of 2013 and 1st quarter of 2014 have been presented in tabular and graphical form as discussed below.

Arsenic, cadmium, chromium, copper, cyanide, lead, mercury, nickel, and zinc are pollutants in the transboundary flow that may threaten the efficiency of the NIWTP and the protection of the environment. Metal levels present in the daily border and influent flows are shown in Table 2 through 5 and the attached figures.

The metals data at the border and influent sites indicate flows originating in Mexico and the U.S. may be contributing to the elevated concentrations of metals in the plant influent. These observations are very general and are based on the limited data points. The simplified analyses, based on a closed perfect system, assign 100 percent of the pollutants arriving at the NIWTP to either the cross-border flows or the cities flows. A wastewater collection system is not a perfectly closed system. The information as presented helps illustrate the current conditions, but does not represent a strict scientific study. The data review method limitations will be reduced as more data is collected. This review method should be used to evaluate general trends and provide guidance to the binational technical committee. The NIWTP will continue to collect and evaluate

Table 1
 AHL Based on Average Influent Flow of 14.74 MGD (645 Ips)
 Bolded shows limiting
 Bolded italicized shows limiting with 25% safety factor

Pollutant	MAHL KG/DAY			MAHL KG/MOS			Exceedance first impacts:			
	MAHL - Safety (lb/day)	AHL _{eff} (kg/day)	AHL _{inh} (kg/day)	AHL _{solids} (kg/day)	MAHL - Safety (kg/30 day)	AHL _{inh} (kg/30 days)		AHL _{solids} (kg/30 days)		
Arsenic	2.3	5.07	5.57	1.39	1.04	152	167	42	31.3	solids
Cadmium	0.41	0.82	289.95	0.25	0.19	25	8699	7	5.58	solids
Chromium	1.69	45.23	60.22	1.02	0.77	1357	1807	31	23.0	solids
Copper	12.64	7.65	15.05	41.82	5.73	229	452	1254	172	effluent
Cyanide	5.03	3.04	23.42	-	2.28	91	703		68.4	effluent
Lead	1.47	0.89	27.88	1.37	0.67	27	836	41	20.0	effluent
Mercury	0.08	0.950	30.67	0.054	0.04	1.5	920	1.6	1.09	effluent
Nickel	13.83	9.62	21.19	8.36	6.27	288	636	251	188	solids
Selenium	0.55	0.37	-	0.34	0.25	11	-	10	7.48	solids
Silver	1.84	1.47	-	1.12	0.83	44	-	33	25.0	solids
Zinc	26.74	-	16.17	79.40	12.1	-	485	2382	364	inhibition
1,4-Dichlorobenzene	8.87	5.36	278.80	5.70	4.02	161	8364	171	121	effluent

Table 3: 4th quarter of 2013

AHL based on recorded flows

Reflects monthly average in which pretreatment monitoring took place

Highlight/bold contaminants and loadings where exceedances are taking place

Loadings Summary and Processes Impacted Based on Monthly Totals

Pollutant	MAHL Arizona (kg/mo)	MAHL Sonora (kg/mo)	MAHL TOTAL (kg/mo)	Actual Loadings Arizona (kg/mo)	Actual Loadings Sonora (kg/mo)	Actual Loadings Sonora Exc (kg)	Actual Loadings Sonora Exc (%)	Actual Loadings Total (kg/mo)	Processes Impacted by Total Loadings*
Arsenic	3.99	22.99	26.99	1.18	5.27			6.54	Solids Effluent
Cadmium	0.71	4.10	4.81	0.00	0.73			0.62	
Chromium	2.93	16.90	19.83	0.00	74.36	57.47	340%	67.49	
Copper	21.94	126.37	148.30	0.00	272.21	145.85	115%	242.84	
Cyanide	8.73	50.29	59.02	0.00	2.35			1.73	
Lead	2.55	14.70	17.25	0.00	8.08			6.58	
Mercury	0.14	0.80	0.94	0.00	0.29			0.24	
Nickel	24.00	138.26	162.27	0.00	358.74	220.47	159%	298.58	
Selenium	0.95	5.50	6.45	0.00	0.17			0.10	
Silver	3.19	18.39	21.59	0.15	0.83			0.98	
Zinc	46.41	267.33	313.74	0.00	310.45	43.12	16%	283.22	
1,4-Dichlorobenzene	15.39	88.68	104.07	0.00	0.00			0.00	

Table 3: 1st quarter of 2014

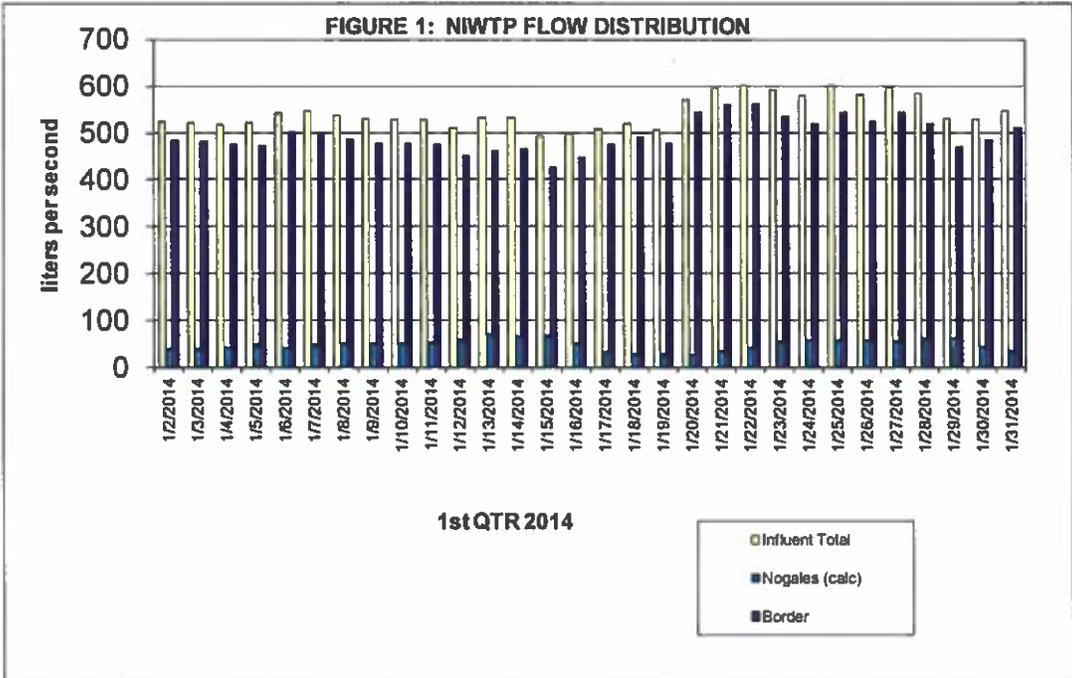
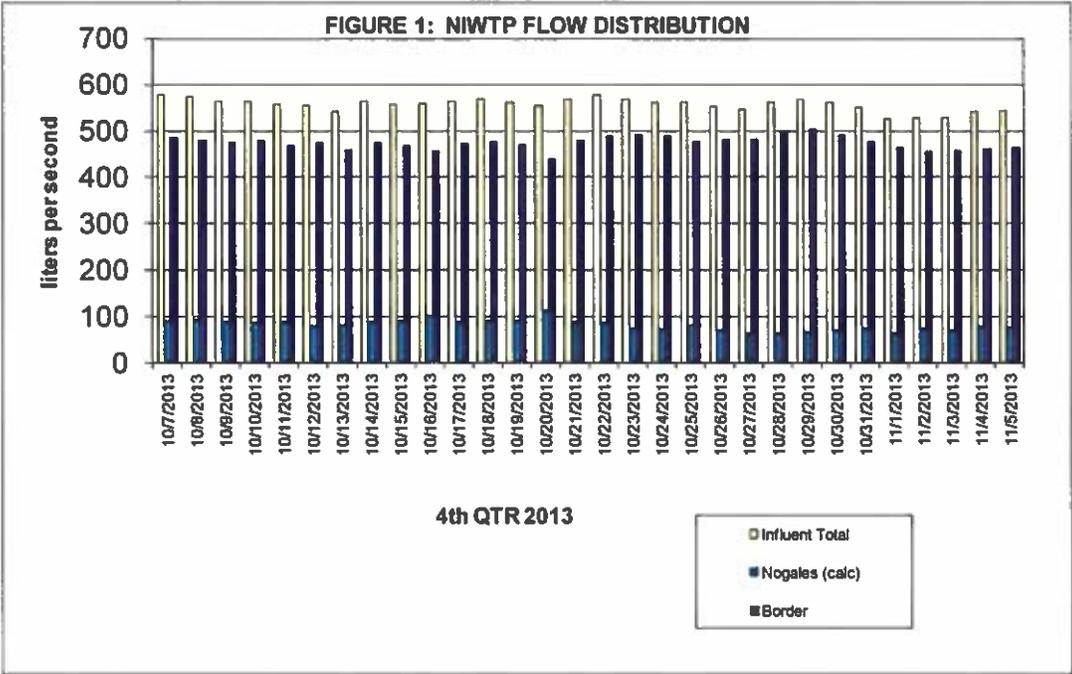
AHL based on recorded flows

Reflects monthly average in which pretreatment monitoring took place

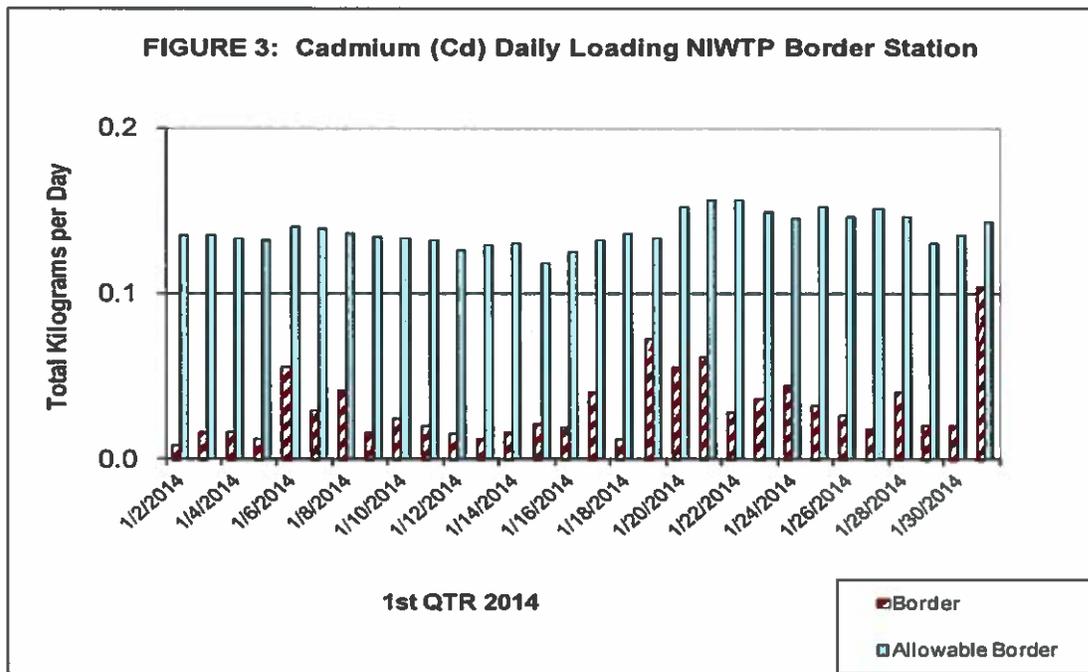
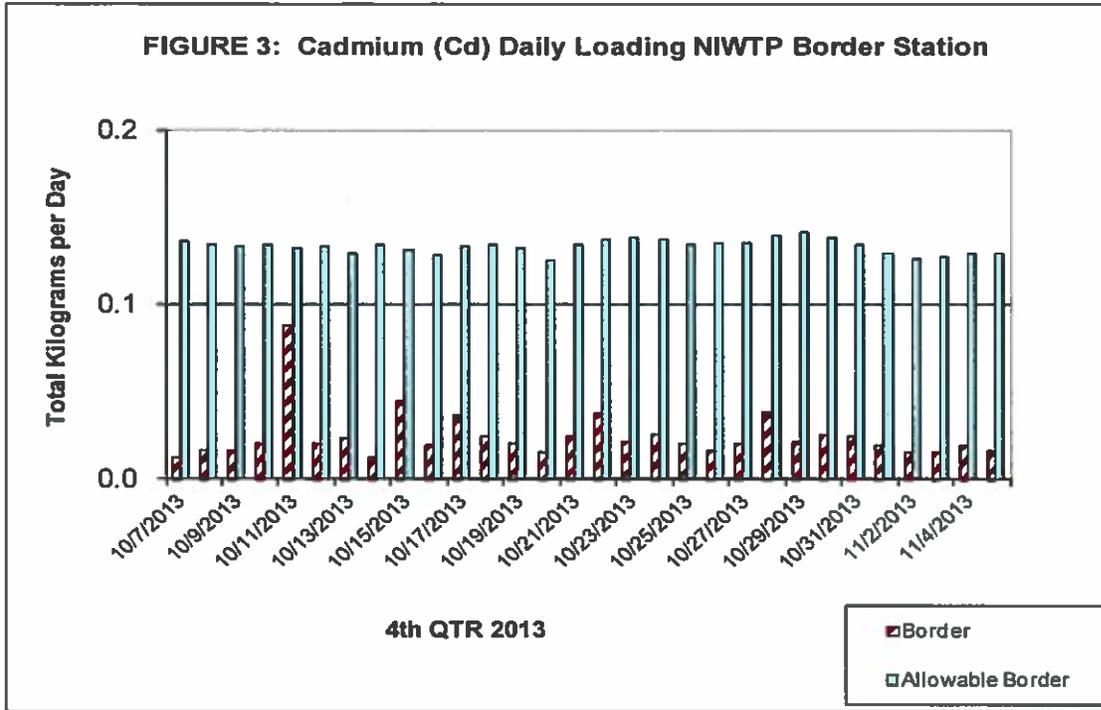
Highlight/bold contaminants and loadings where exceedances are taking place

Loadings Summary and Processes Impacted Based on Monthly Totals

Pollutant	MAHL Arizona (kg/mo)	MAHL Sonora (kg/mo)	MAHL TOTAL (kg/mo)	Actual Loadings Arizona (kg/mo)	Actual Loadings Sonora (kg/mo)	Actual Loadings Sonora Exc (kg)	Actual Loadings Sonora Exc (%)	Actual Loadings Total (kg/mo)	Processes Impacted by Total Loadings*
Arsenic	2.37	23.96	26.33	0.99	5.98			7.16	Solids Effluent
Cadmium	0.42	4.27	4.69	0.05	0.94			0.99	
Chromium	1.74	17.60	19.35	0.00	115.17	97.57	554%	95.02	
Copper	13.04	131.66	144.70	0.00	195.78	64.12	49%	171.59	
Cyanide	5.19	52.39	57.58	0.00	16.17			14.96	
Lead	1.52	15.31	16.83	0.00	7.98			7.46	
Mercury	0.08	0.83	0.92	0.01	0.28			0.29	
Nickel	14.27	144.05	158.32	0.00	337.35	193.29	134%	280.06	
Selenium	0.57	5.73	6.30	0.00	1.11			0.89	
Silver	1.90	19.17	21.06	1.62	0.00			1.91	
Zinc	27.59	278.53	306.11	0.00	315.45	36.92	13%	305.55	
1,4-Dichlorobenzene	9.15	92.39	101.54	0.00	0.00			0.00	



Cadmium



Copper

FIGURE 5: Copper (Cu) Daily Loading NIWTP Border Station

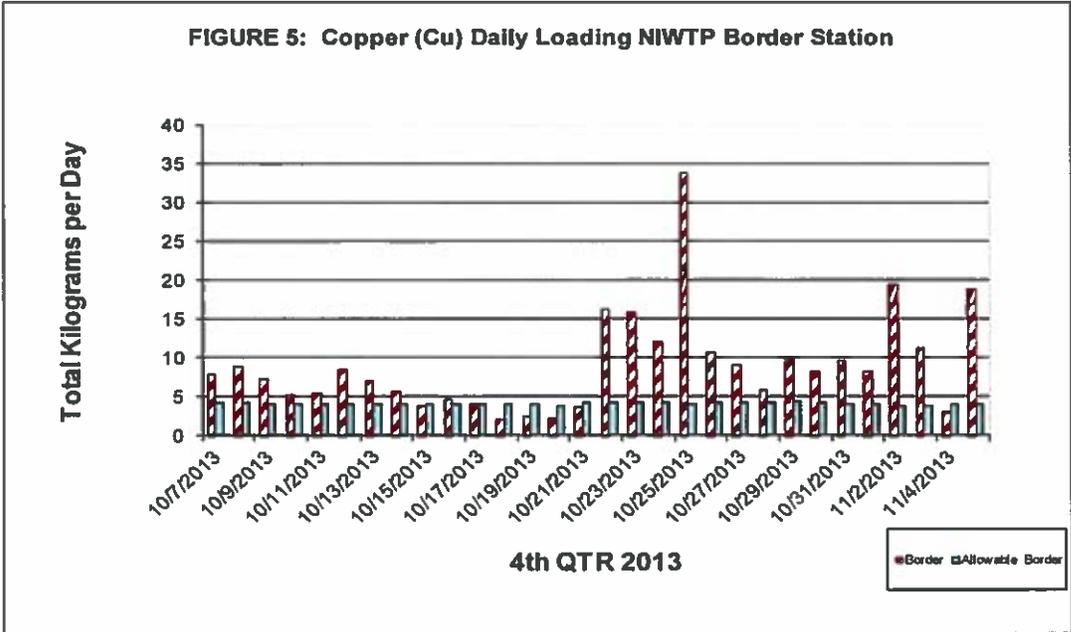
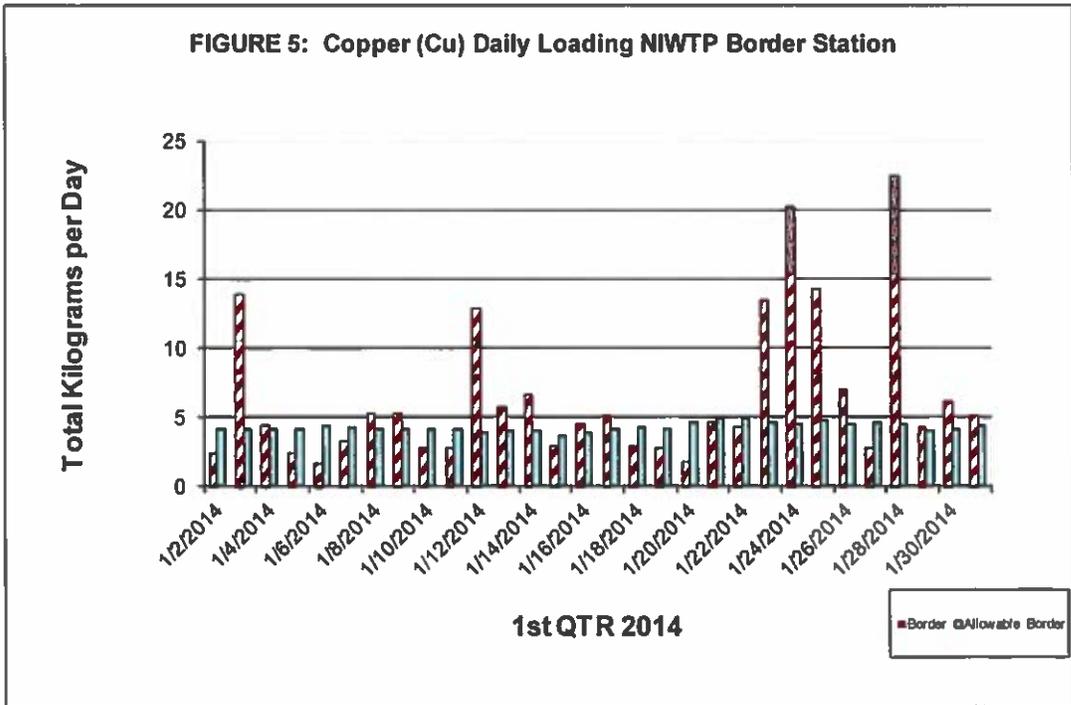
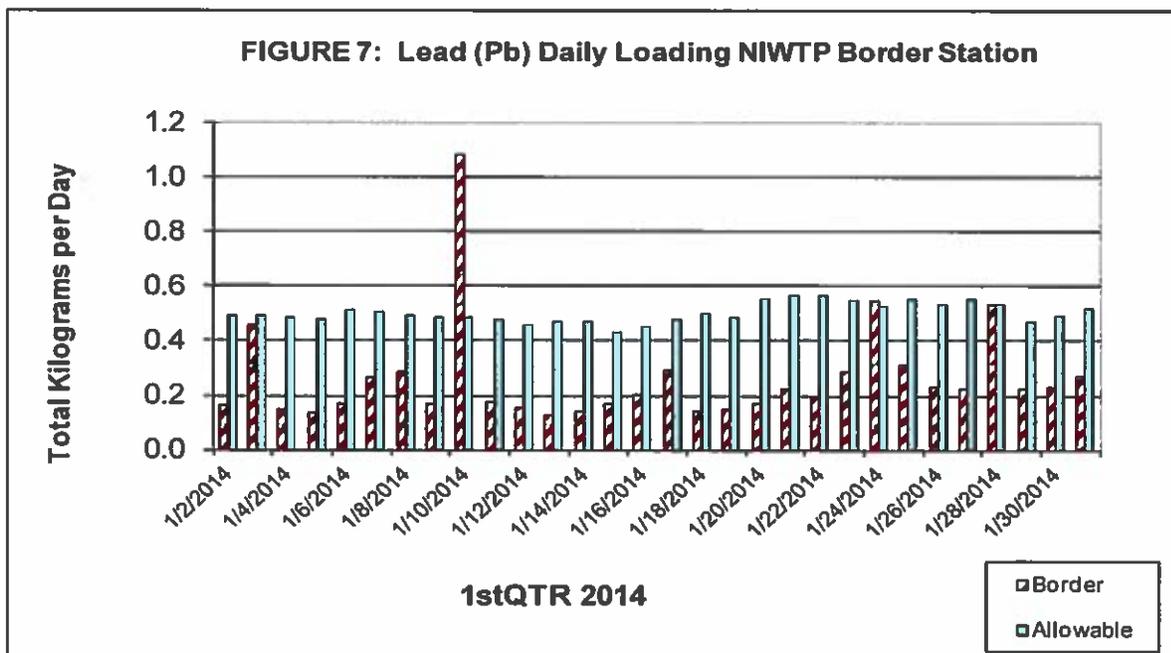
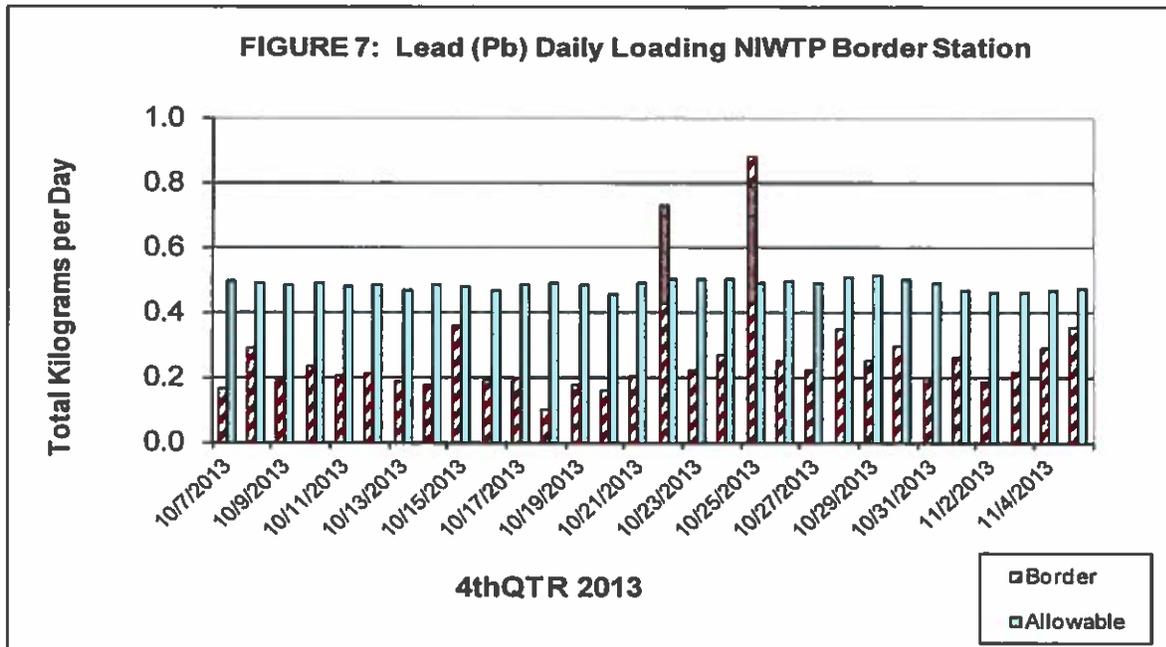


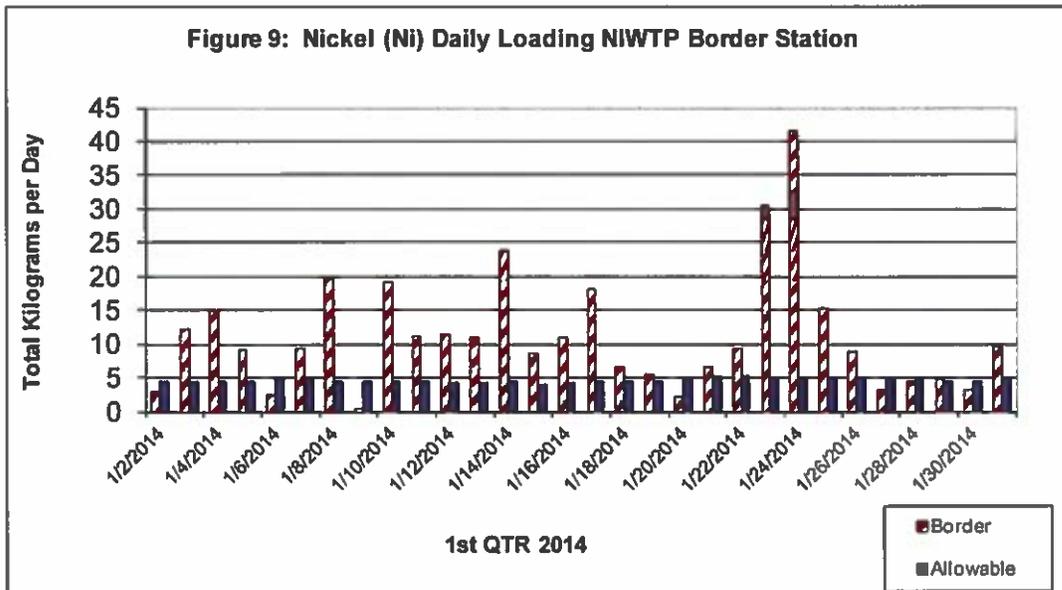
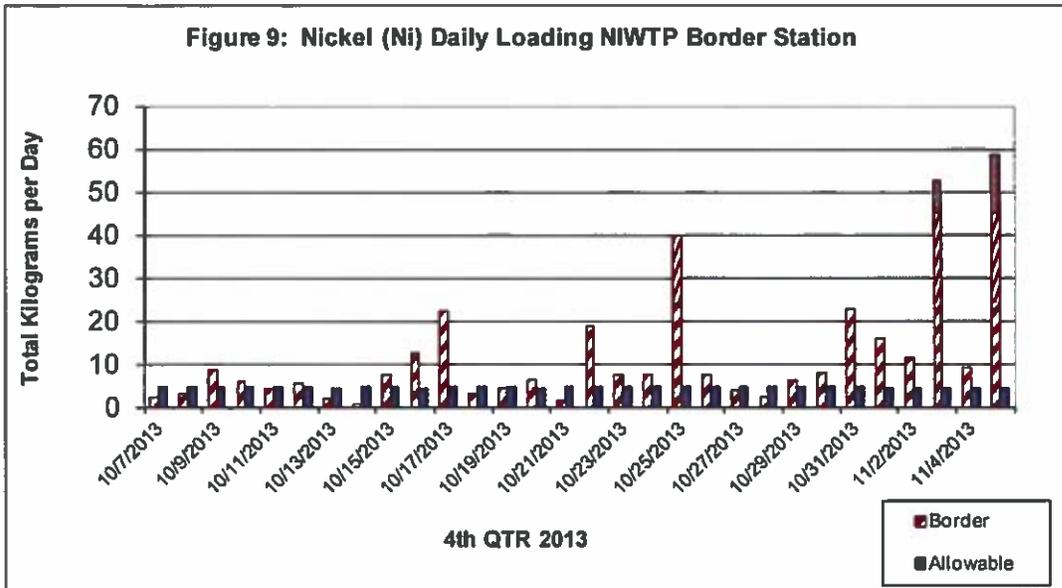
FIGURE 5: Copper (Cu) Daily Loading NIWTP Border Station



Lead



Nickel



Silver

FIGURE 11: Silver (Ag) Daily Loading NIWTP Border Station

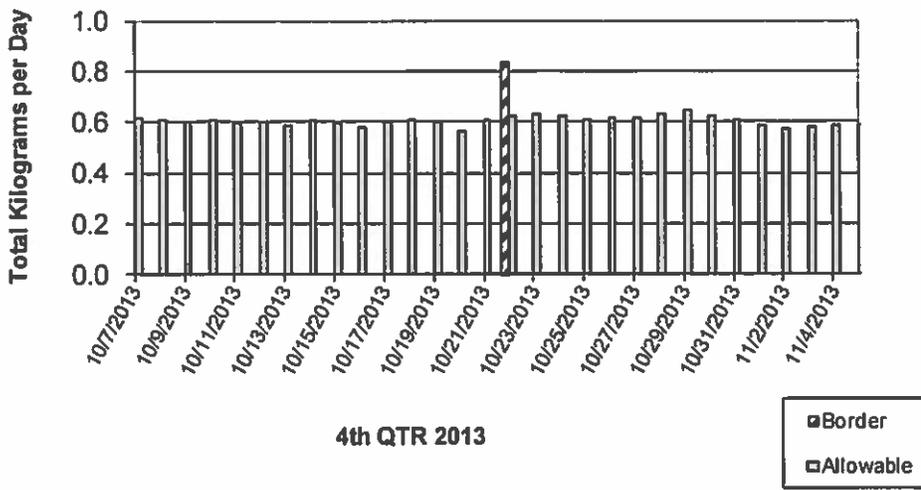
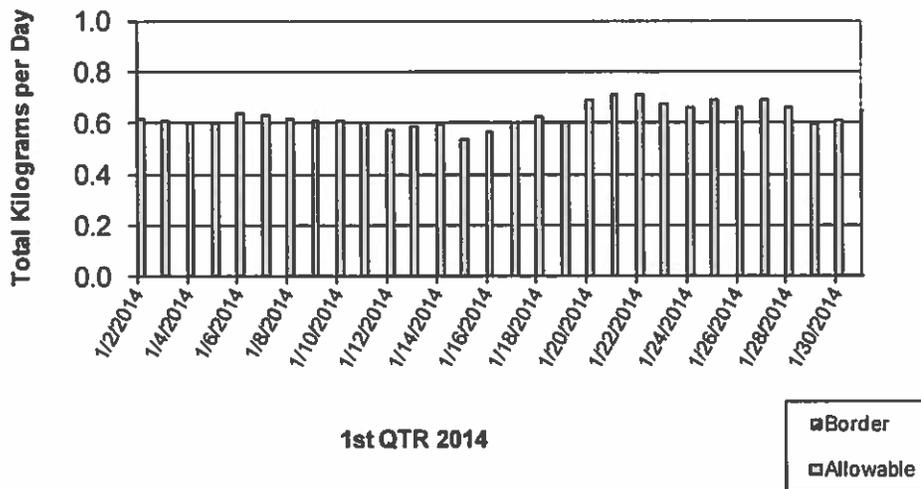


FIGURE 11: Silver (Ag) Daily Loading NIWTP Border Station



Attachment 1

2nd Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP) Pretreatment Report

The NIWTP discharge to the Santa Cruz River is permitted under the National Pollutant Discharge Elimination System (NPDES) in accordance with the United States Clean Water Act. The plant is also permitted by the State of Arizona Ground Water Quality Aquifer Protection Permit (APP). The NPDES permit requires that the United States Section, International Boundary and Water Commission (USIBWC), provide associate data and plant operation information to Mexico.

The NPDES permit contains border and influent Maximum Allowable Headworks Allocation (MAHA) objectives that are based on recommendations in the Development of Headworks Allocations for the Nogales International Wastewater Treatment Plant, dated April 2009 and was provided to the Mexican Section and presented at the binational technical committee meetings. The NIWTP completes quarterly water quality monitoring of the primary pollutants of concern identified in this report. In accordance with the NPDES permit, the NIWTP conducts 30-day quarterly sampling of the pollutants of concern.

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 2nd quarter of 2014: **cadmium, chromium, copper, nickel, and zinc** were present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Figure 1 presents the distribution of flow between the United States (U.S.) and Mexico for each day samples were collected. U.S. flows were computed by subtracting border flows from the total influent flows. The mass contributions for the border, cities, and the NIWTP influent were compared with the MAHA objectives. Results of the evaluations of data collected during the 2nd quarter of 2014 have been presented in tabular and graphical form as discussed below.

Arsenic, cadmium, chromium, copper, cyanide, lead, mercury, nickel, and zinc are pollutants in the transboundary flow that may threaten the efficiency of the NIWTP and the protection of the environment. Metal levels present in the daily border flows are shown in Table 2 through 4 and the attached figures.

The metals data at the border and influent sites indicate flows originating in Mexico and the U.S. may be contributing to the elevated concentrations of metals in the plant influent. These observations are very general and are based on the limited data points. The simplified analyses, based on a closed perfect system, assign 100 percent of the pollutants arriving at the NIWTP to either the cross-border flows or the cities flows. A wastewater collection system is not a perfectly closed system. The information as presented helps illustrate the current conditions, but does not represent a strict scientific study. The data review method limitations will be reduced as more data is collected. This review method should be used to evaluate general trends and provide guidance to the binational technical committee. The NIWTP will continue to collect and evaluate data. This information is provided for the purpose of assisting both Sections in implementing resolution No. 6 of IBWC Minute No. 276 which states that our two Governments have the

Table 1

AHL Based on Average Influent Flow of 14.74 MGD (645 ips)

Bolded shows limiting

Bolded italicized shows limiting with 25% safety factor

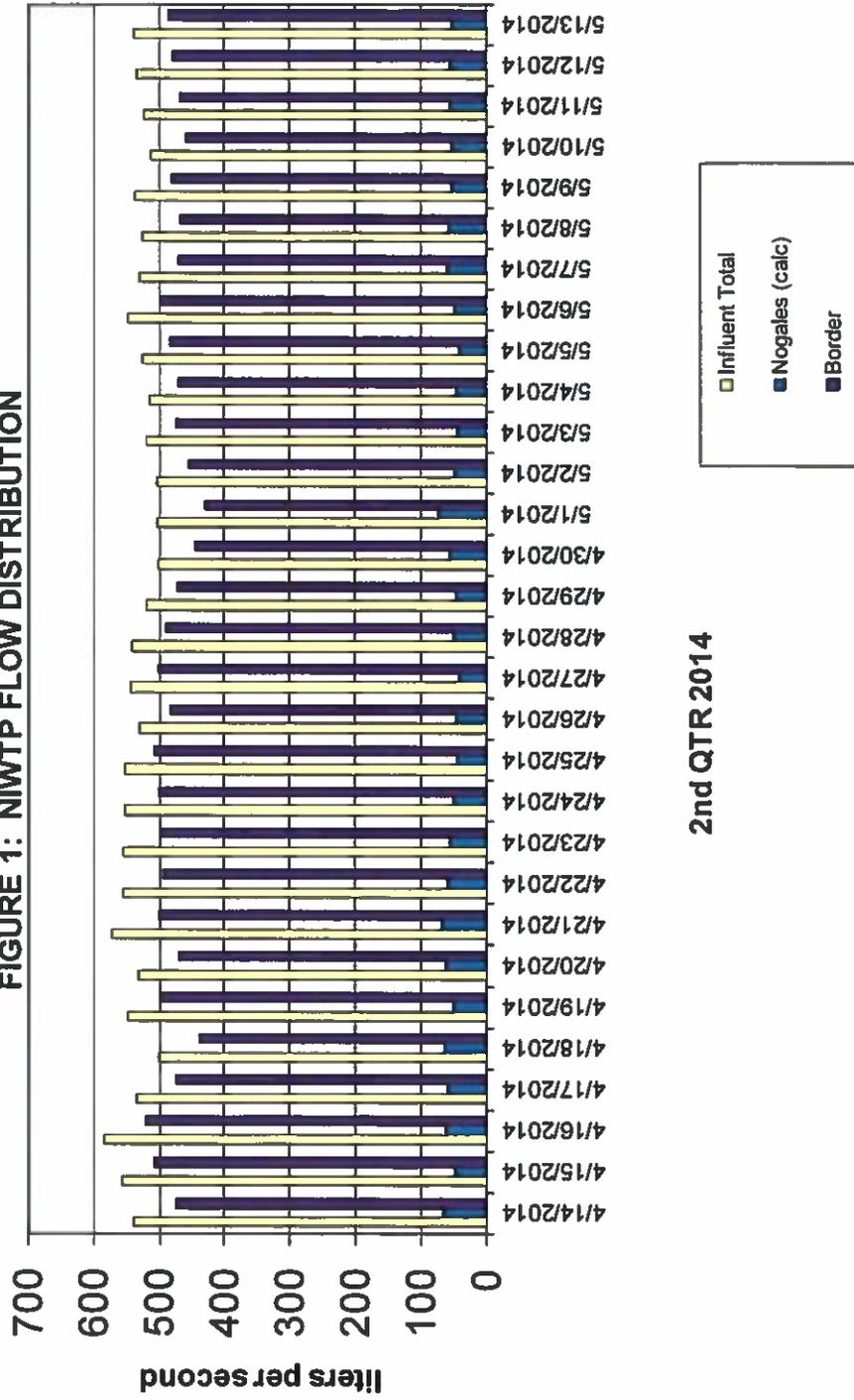
Pollutant	MAHL KG/DAY			MAHL KG/MOS					Exceedance first impacts:	
	MAHL - Safety (lb/day)	AHL _{eff} (kg/day)	AHL _{inh} (kg/day)	AHL _{solids} (kg/day)	MAHL - Safety (kg/day)	AHL _{eff} (kg/30 days)	AHL _{inh} (kg/30 days)	AHL _{solids} (kg/30 days)		MAHL - Safety (kg/30 day)
Arsenic	2.3	5.07	5.57	1.39	1.04	152	167	42	31.3	solids
Cadmium	0.41	0.82	289.95	0.25	0.19	25	8699	7	5.58	solids
Chromium	1.69	45.23	60.22	1.02	0.77	1357	1807	31	23.0	solids
Copper	12.64	7.65	15.05	41.82	5.73	229	452	1254	172	effluent
Cyanide	5.03	3.04	23.42	-	2.28	91	703	-	68.4	effluent
Lead	1.47	0.89	27.88	1.37	0.67	27	836	41	20.0	effluent
Mercury	0.08	0.050	30.67	0.054	0.04	1.5	920	1.6	1.09	effluent
Nickel	13.83	9.62	21.19	8.36	6.27	288	636	251	188	solids
Selenium	0.55	0.37	-	0.34	0.25	11	-	10	7.48	solids
Silver	1.84	1.47	-	1.12	0.83	44	-	33	25.0	solids
Zinc	26.74	-	16.17	79.40	12.1	-	485	2382	364	inhibition
1,4-Dichlorobenzene	8.87	5.36	278.80	5.70	4.02	161	8364	171	121	effluent

Table 3: 2nd quarter of 2014
AHL based on recorded flows
Reflects monthly average in which pretreatment monitoring took place
Highlight/bold contaminants and loadings where exceedances are taking place

Loadings Summary and Processes Impacted Based on Monthly Totals

Pollutant	MAHL Arizona (kg/mo)	MAHL Sonora (kg/mo)	MAHL TOTAL (kg/mo)	Actual Loadings Arizona (kg/mo)	Actual Loadings Sonora (kg/mo)	Actual Loadings Sonora Exc (kg)	Actual Loadings Sonora Exc (%)	Actual Loadings Total (kg/mo)	Processes Impacted by Total Loadings*
Arsenic	2.64	23.27	25.91	1.16	5.77			7.09	
Cadmium	0.47	4.15	4.62	-0.56	6.81	2.66	64%	6.16	Solids
Chromium	1.94	17.10	19.03	0.00	37.20	20.10	118%	32.94	Solids
Copper	14.49	127.88	142.37	0.00	164.35	36.47	29%	158.91	Effluent
Cyanide	5.77	50.89	56.65	0.00	0.60			1.47	
Lead	1.69	14.87	16.56	0.00	8.64			7.71	
Mercury	0.09	0.81	0.90	-0.10	0.44			0.33	
Nickel	15.85	139.92	155.77	0.00	201.91	62.00	44%	169.21	Solids, Effluent
Selenium	0.63	5.56	6.19	0.00	0.81			0.57	
Silver	2.11	18.61	20.72	1.24	0.42			1.85	
Zinc	30.65	270.52	301.18	0.00	323.18	52.66	19%	309.26	Treatment Process
1,4-Dichlorobenzene	10.17	89.74	99.90	0.00	0.00			0.00	

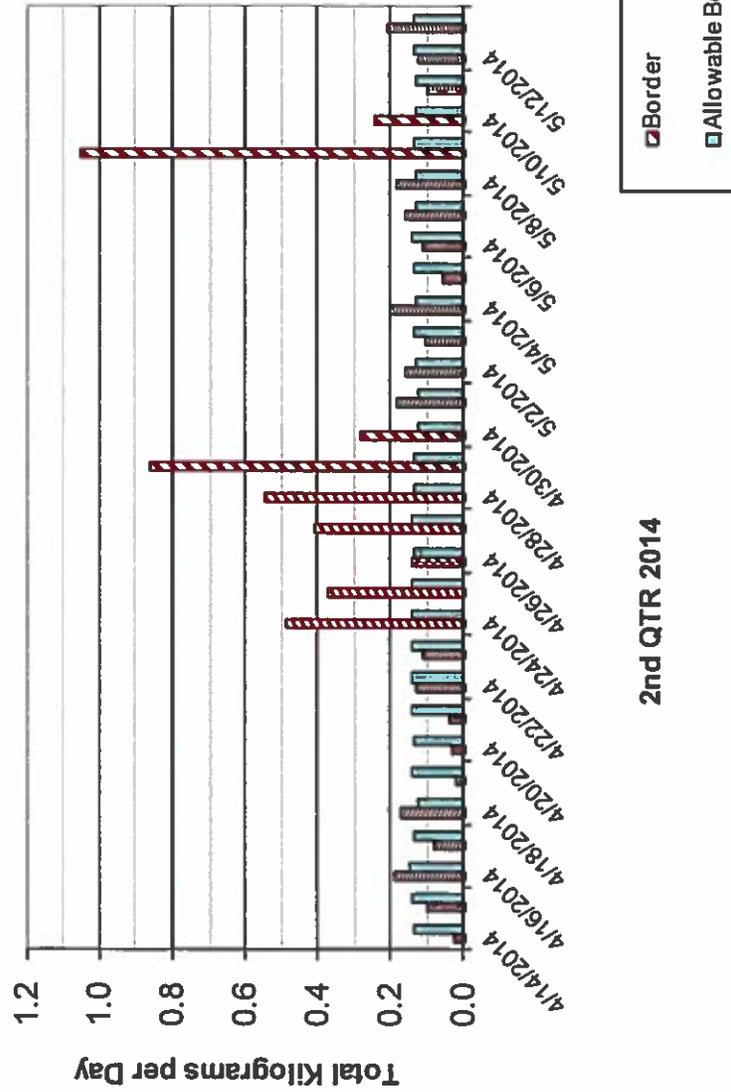
FIGURE 1: NIWTP FLOW DISTRIBUTION



2nd QTR 2014

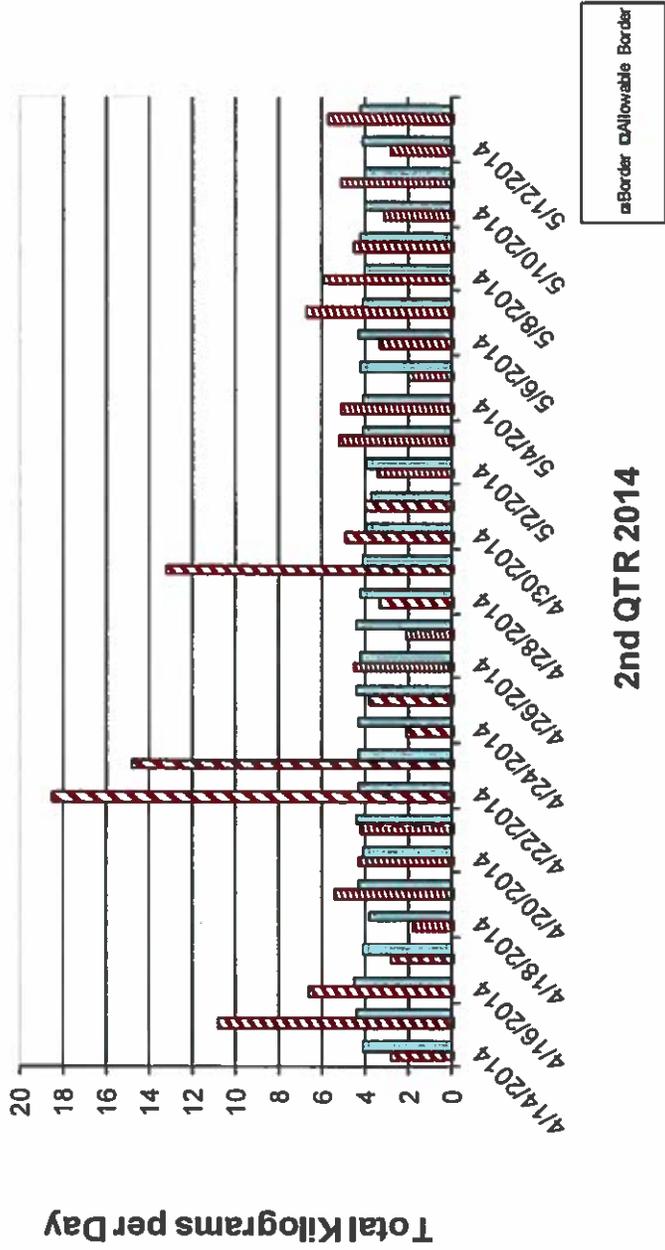
Cadmium

FIGURE 3: Cadmium (Cd) Daily Loading NIWTP Border Station



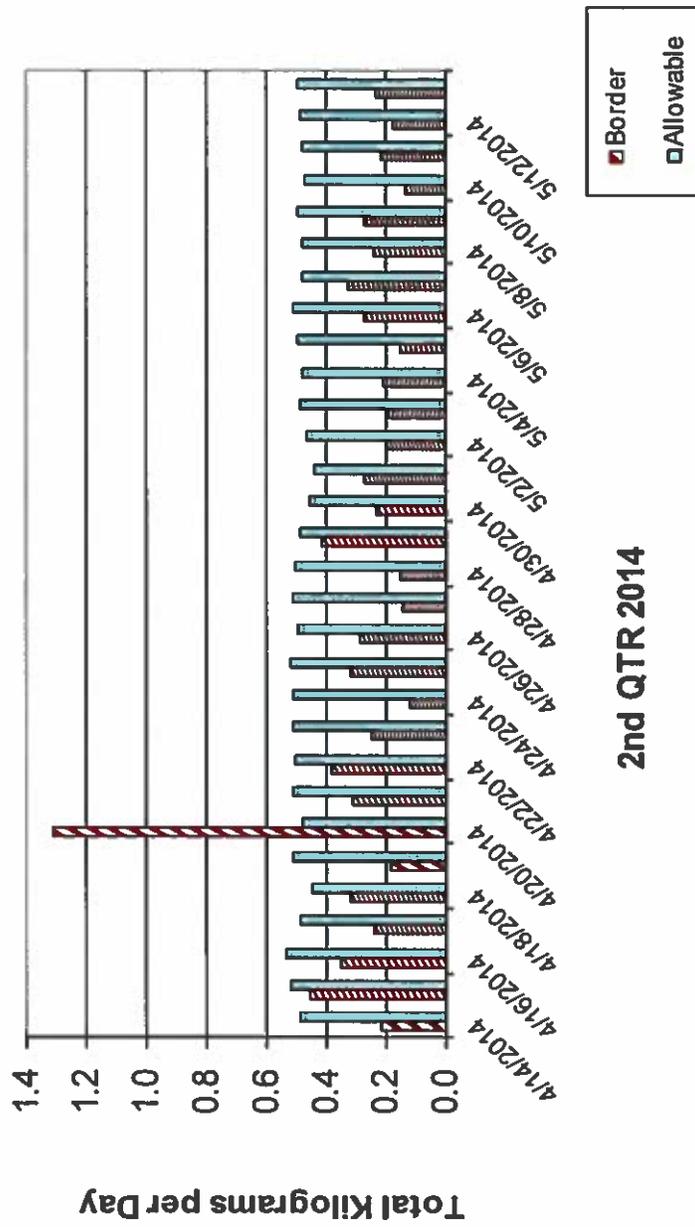
Copper

FIGURE 5: Copper (Cu) Daily Loading NIWTP Border Station



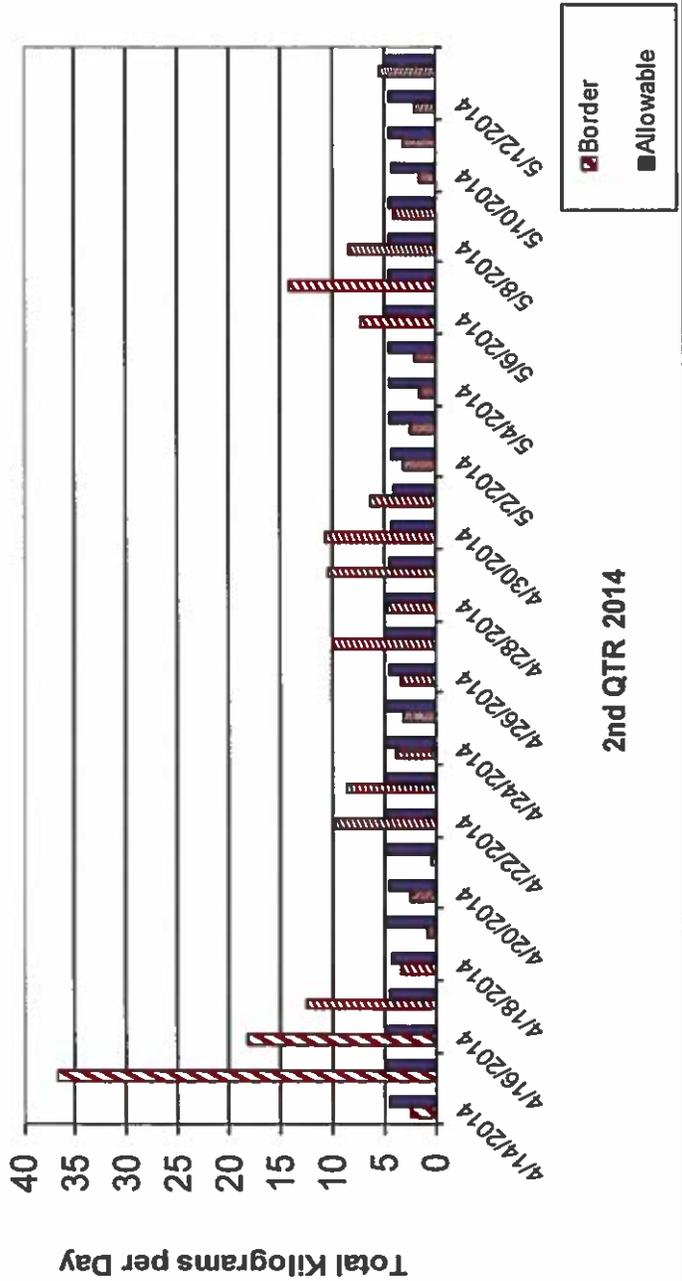
Lead

FIGURE 7: Lead (Pb) Daily Loading NIWTP Border Station

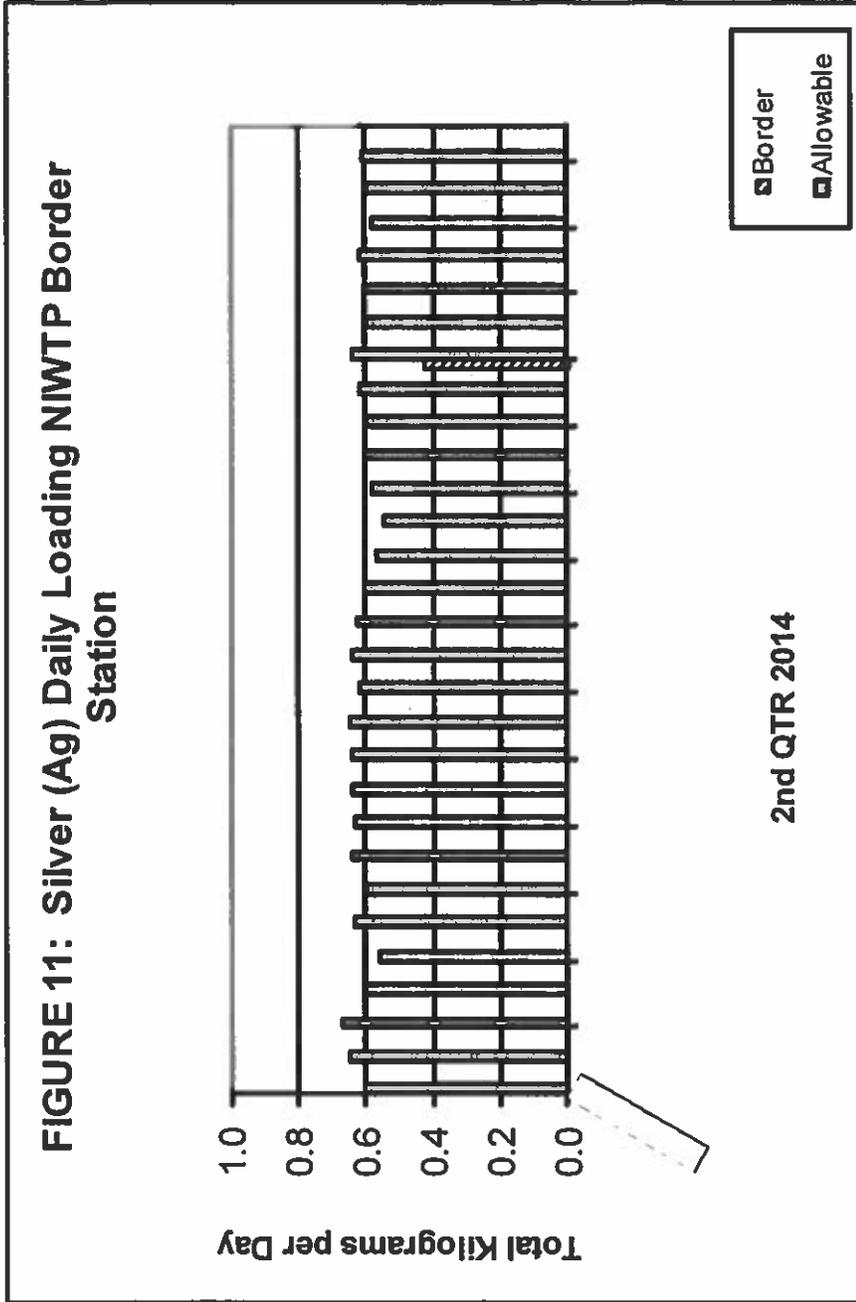


Nickel

Figure 9: Nickel (Ni) Daily Loading NIWTP Border Station



Silver



Attachment 1

3rd Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP) Pretreatment Report

The NIWTP discharge to the Santa Cruz River is permitted under the National Pollutant Discharge Elimination System (NPDES) in accordance with the United States Clean Water Act. The plant is also permitted by the State of Arizona Ground Water Quality Aquifer Protection Permit (APP). The NPDES permit requires that the United States Section, International Boundary and Water Commission (USIBWC), provide associate data and plant operation information to Mexico.

The NPDES permit contains border and influent Maximum Allowable Headworks Allocation (MAHA) objectives that are based on recommendations in the Development of Headworks Allocations for the Nogales International Wastewater Treatment Plant, dated April 2009 and was provided to the Mexican Section and presented at the binational technical committee meetings. The NIWTP completes quarterly water quality monitoring of the primary pollutants of concern identified in this report. In accordance with the NPDES permit, the NIWTP conducts 30-day quarterly sampling of the pollutants of concern.

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 3rd quarter of 2014: **chromium, nickel, and zinc** were present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Figure 1 presents the distribution of flow between the United States (U.S.) and Mexico for each day samples were collected. U.S. flows were computed by subtracting border flows from the total influent flows. The mass contributions for the border, cities, and the NIWTP influent were compared with the MAHA objectives. Results of the evaluations of data collected during the 3rd quarter of 2014 have been presented in tabular and graphical form as discussed below.

Arsenic, cadmium, chromium, copper, cyanide, lead, mercury, nickel, and zinc are pollutants in the transboundary flow that may threaten the efficiency of the NIWTP and the protection of the environment. Metal levels present in the daily border flows are shown in Table 2 through 4 and the attached figures.

The metals data at the border and influent sites indicate flows originating in Mexico and the U.S. may be contributing to the elevated concentrations of metals in the plant influent. These observations are very general and are based on the limited data points. The simplified analyses, based on a closed perfect system, assign 100 percent of the pollutants arriving at the NIWTP to either the cross-border flows or the cities flows. A wastewater collection system is not a perfectly closed system. The information as presented helps illustrate the current conditions, but does not represent a strict scientific study. The data review method limitations will be reduced as more data is collected. This review method should be used to evaluate general trends and provide guidance to the binational technical committee. The NIWTP will continue to collect and evaluate data. This information is provided for the purpose of assisting both Sections in implementing resolution No. 6 of IBWC Minute No. 276 which states that our two Governments have the

Table 1

AHL Based on Average Influent Flow of 14.74 MGD (645 Ips)

Bolded shows limiting

Bolded italicized shows limiting with 25% safety factor

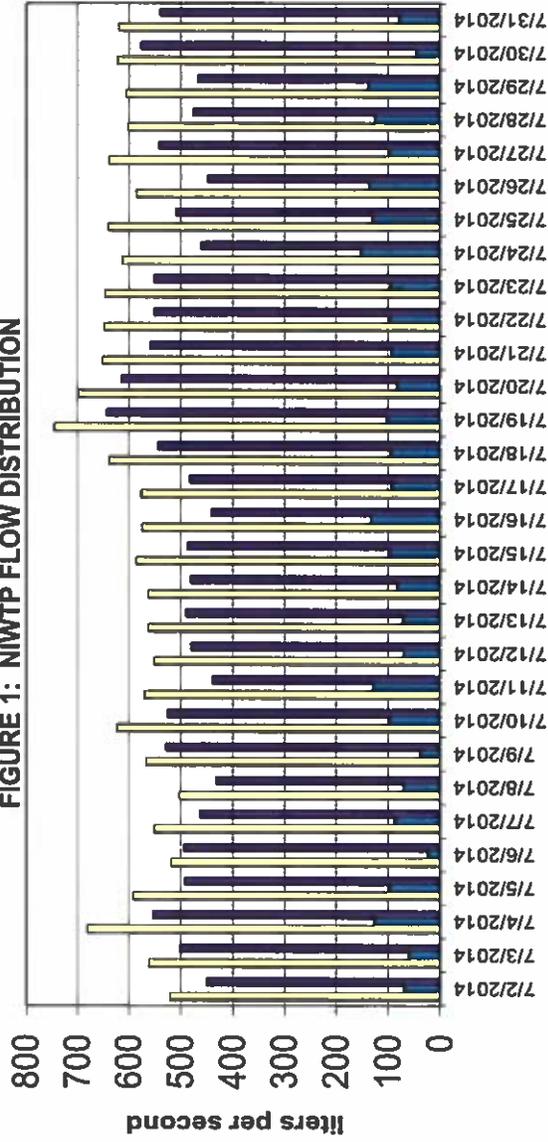
Pollutant	MAHL KG/DAY				MAHL KG/MOS				Exceedance first impacts:	
	MAHL - Safety (lb/day)	AHL _{eff} (kg/day)	AHL _{inh} (kg/day)	AHL _{solids} (kg/day)	MAHL - Safety (kg/day)	AHL _{eff} (kg/30 days)	AHL _{inh} (kg/30 days)	AHL _{solids} (kg/30 days)		MAHL - Safety (kg/30 day)
Arsenic	2.3	5.07	5.57	1.39	1.04	152	167	42	31.3	solids
Cadmium	0.41	0.82	289.95	0.25	0.19	25	8699	7	5.58	solids
Chromium	1.69	45.23	60.22	1.02	0.77	1357	1807	31	23.0	solids
Copper	12.64	7.65	15.05	41.82	5.73	229	452	1254	172	effluent
Cyanide	5.03	3.04	23.42	-	2.28	91	703	-	68.4	effluent
Lead	1.47	0.89	27.88	1.37	0.67	27	836	41	20.0	effluent
Mercury	0.08	0.050	30.67	0.054	0.04	1.5	920	1.6	1.09	effluent
Nickel	13.83	9.62	21.19	8.36	6.27	288	636	251	188	solids
Selenium	0.55	0.37	-	0.34	0.25	11	-	10	7.48	solids
Silver	1.84	1.47	-	1.12	0.83	44	-	33	25.0	solids
Zinc	26.74	-	16.17	79.40	12.1	-	485	2382	364	inhibition
1,4-Dichlorobenzene	8.87	5.36	278.80	5.70	4.02	161	8364	171	121	effluent

Table 3: 3rd quarter of 2014
AHL based on recorded flows
Reflects monthly average in which pretreatment monitoring took place
Highligh/bold contaminants and loadings where exceedances are taking place

Loadings Summary and Processes Impacted Based on Monthly Totals

Pollutant	MAHL Arizona (kg/mo)	MAHL Sonora (kg/mo)	MAHL TOTAL (kg/mo)	Actual Loadings Arizona (kg/mo)	Actual Loadings Sonora (kg/mo)	Actual Loadings Sonora Exc (kg)	Actual Loadings Sonora Exc (%)	Actual Loadings Total (kg/mo)	Processes Impacted by Total Loadings*
Arsenic	4.56	24.60	29.16	2.02	7.25			9.45	
Cadmium	0.81	4.39	5.20	0.32	2.83			3.17	
Chromium	3.35	18.07	21.42	0.30	36.22	18.15	100%	38.15	Solids
Copper	25.05	135.19	160.23	0.31	119.70			148.37	
Cyanide	9.97	53.80	63.76	0.17	0.00			0.00	
Lead	2.91	15.72	18.63	0.15	12.46			13.10	
Mercury	0.16	0.86	1.01	0.11	0.21			0.33	
Nickel	27.40	147.92	175.32	0.11	151.92	4.00	3%	153.04	Solids, Effluent
Selenium	1.09	5.88	6.97	0.14	0.46			0.77	
Silver	3.65	19.68	23.33	-0.81	2.46			1.56	
Zinc	52.99	285.99	338.98	0.13	295.13	9.14	3%	377.95	Treatment Process
1,4-Dichlorobenzene	17.58	94.87	112.44	0.81	0.00			0.89	

FIGURE 1: NIWTP FLOW DISTRIBUTION

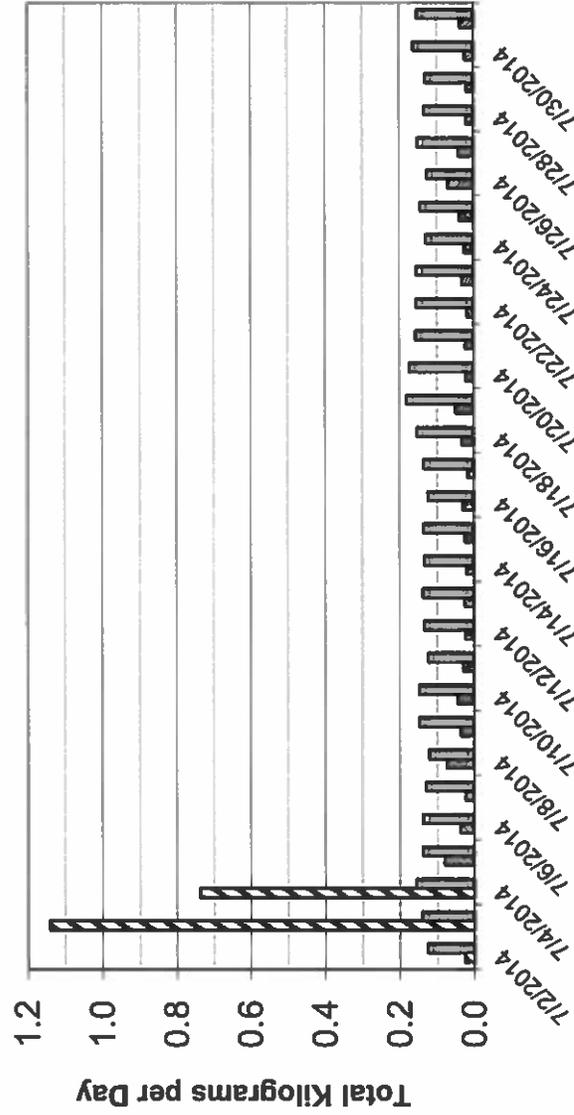


3rd QTR 2014



Cadmium

FIGURE 3: Cadmium (Cd) Daily Loading NIWTP Border Station

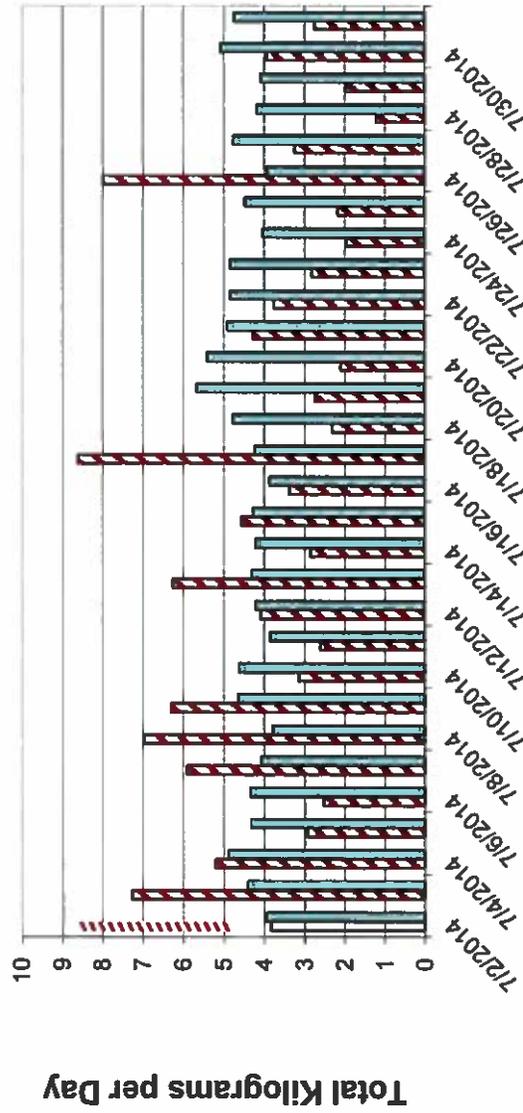


3rd QTR 2014

□ Border ▨ Allowable Border

Copper

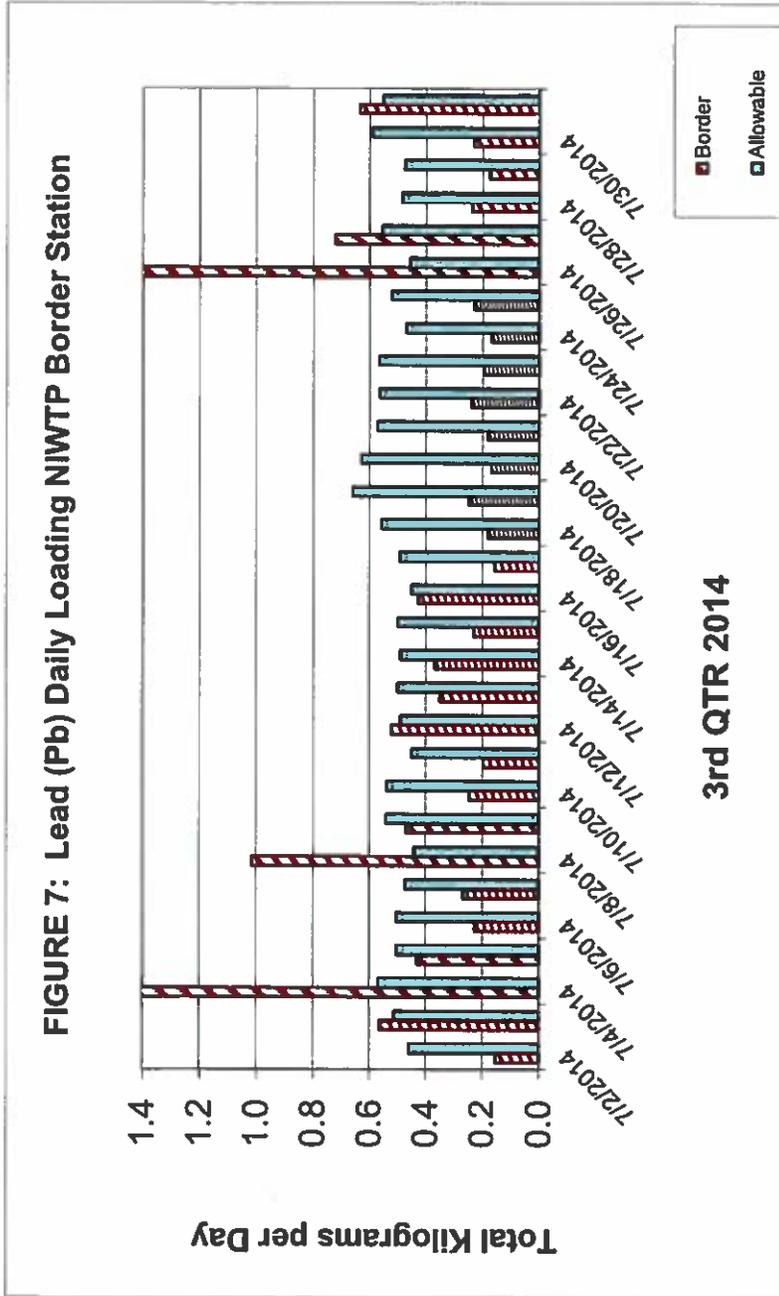
FIGURE 5: Copper (Cu) Daily Loading NIWTP Border Station



3rd QTR 2014

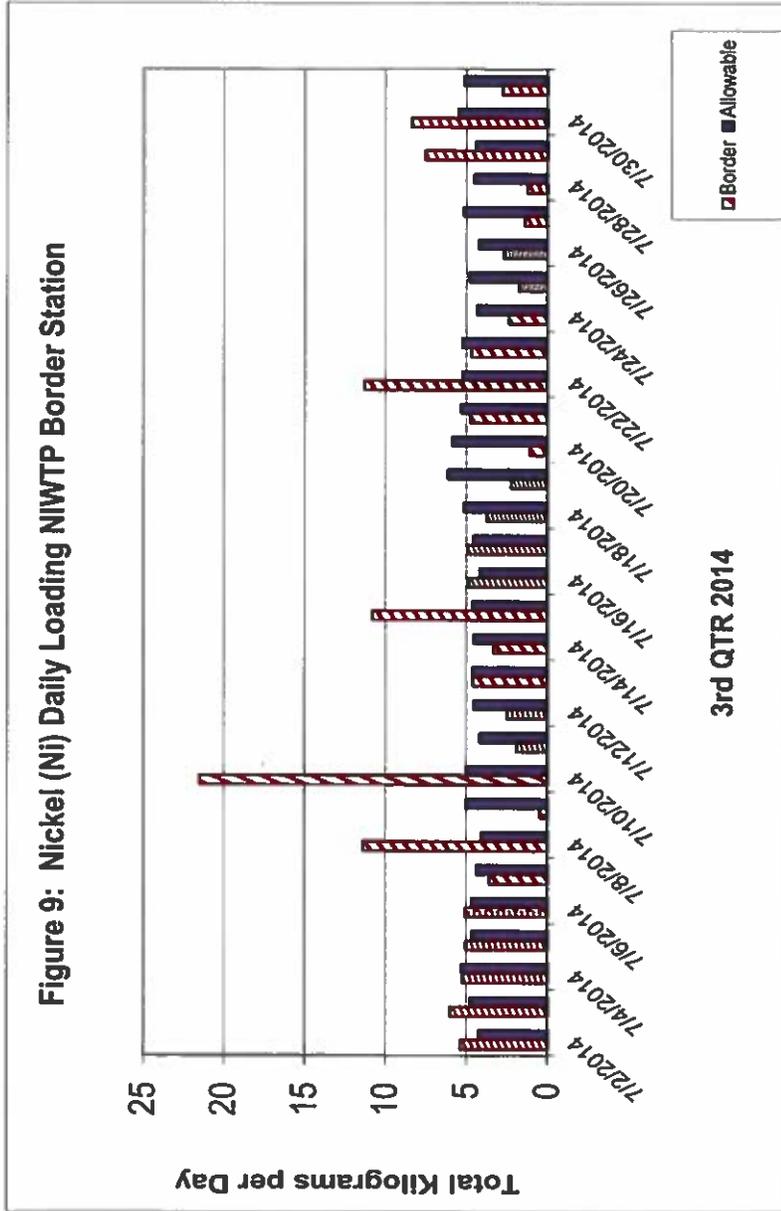
Border Allowable Border

Lead



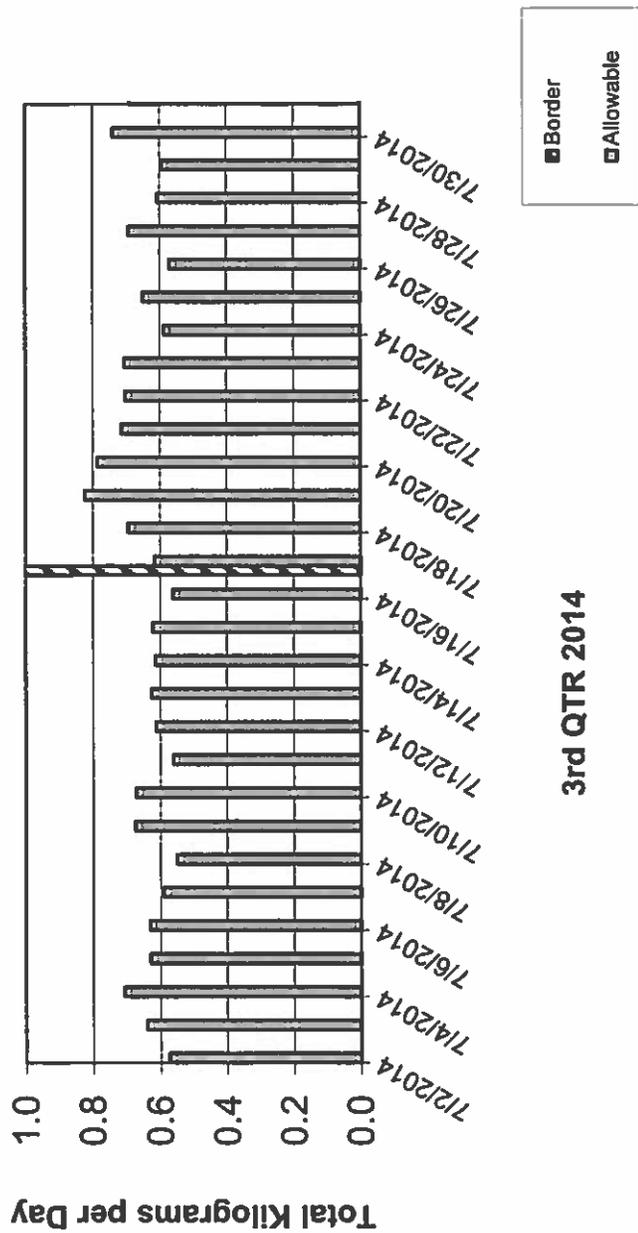
Nickel

Figure 9: Nickel (Ni) Daily Loading NIWTP Border Station



Silver

FIGURE 11: Silver (Ag) Daily Loading NIWTP Border Station



3rd QTR 2014

Attachment 1

4th Quarter of 2014 Nogales International Wastewater Treatment Plant (NIWTP) Pretreatment Report

The NIWTP discharge to the Santa Cruz River is permitted under the National Pollutant Discharge Elimination System (NPDES) in accordance with the United States Clean Water Act. The plant is also permitted by the State of Arizona Ground Water Quality Aquifer Protection Permit (APP). The NPDES permit requires that the United States Section, International Boundary and Water Commission (USIBWC), provide associate data and plant operation information to Mexico.

The NPDES permit contains border and influent Maximum Allowable Headworks Allocation (MAHA) objectives that are based on recommendations in the Development of Headworks Allocations for the Nogales International Wastewater Treatment Plant, dated April 2009 and was provided to the Mexican Section and presented at the binational technical committee meetings. The NIWTP completes quarterly water quality monitoring of the primary pollutants of concern identified in this report. In accordance with the NPDES permit, the NIWTP conducts 30-day quarterly sampling of the pollutants of concern.

In accordance with the NPDES permit for the NIWTP, wastewater flows at the border, influent, and effluent stations were sampled and analyzed. Entries are bold to indicate pollutants present at levels that exceeded the Maximum Allowable Headworks Allocation (MAHA) (Table 1) objective defined in the NPDES permit for focus pollutants. The data indicate that during the 4th quarter of 2014: **chromium** was present at elevated levels at the border station of the International Outfall Interceptor (IOI) and also present at elevated levels at the NIWTP influent station.

Figure 1 presents the distribution of flow between the United States (U.S.) and Mexico for each day samples were collected. U.S. flows were computed by subtracting border flows from the total influent flows. The mass contributions for the border, cities, and the NIWTP influent were compared with the MAHA objectives. Results of the evaluations of data collected during the 4th quarter of 2014 have been presented in tabular and graphical form as discussed below.

Arsenic, cadmium, chromium, copper, cyanide, lead, mercury, nickel, and zinc are pollutants in the transboundary flow that may threaten the efficiency of the NIWTP and the protection of the environment. Metal levels present in the daily border flows are shown in Table 2 through 4 and the attached figures.

The metals data at the border and influent sites indicate flows originating in Mexico and the U.S. may be contributing to the elevated concentrations of metals in the plant influent. These observations are very general and are based on the limited data points. The simplified analyses, based on a closed perfect system, assign 100 percent of the pollutants arriving at the NIWTP to either the cross-border flows or the cities' flows. A wastewater collection system is not a perfectly closed system. The information as presented helps illustrate the current conditions, but does not represent a strict scientific study. The data review method limitations will be reduced as more data is collected. This review method should be used to evaluate general trends and provide guidance to the binational technical committee. The NIWTP will continue to collect and evaluate data. This information is provided for the purpose of assisting both Sections in implementing resolution No. 6 of IBWC Minute No. 276 which states that our two Governments have the

Table 1
 AHL Based on Average Influent Flow of 14.74 MGD (645 Ips)
 Bolded shows limiting
 Bolded italicized shows limiting with 25% safety factor

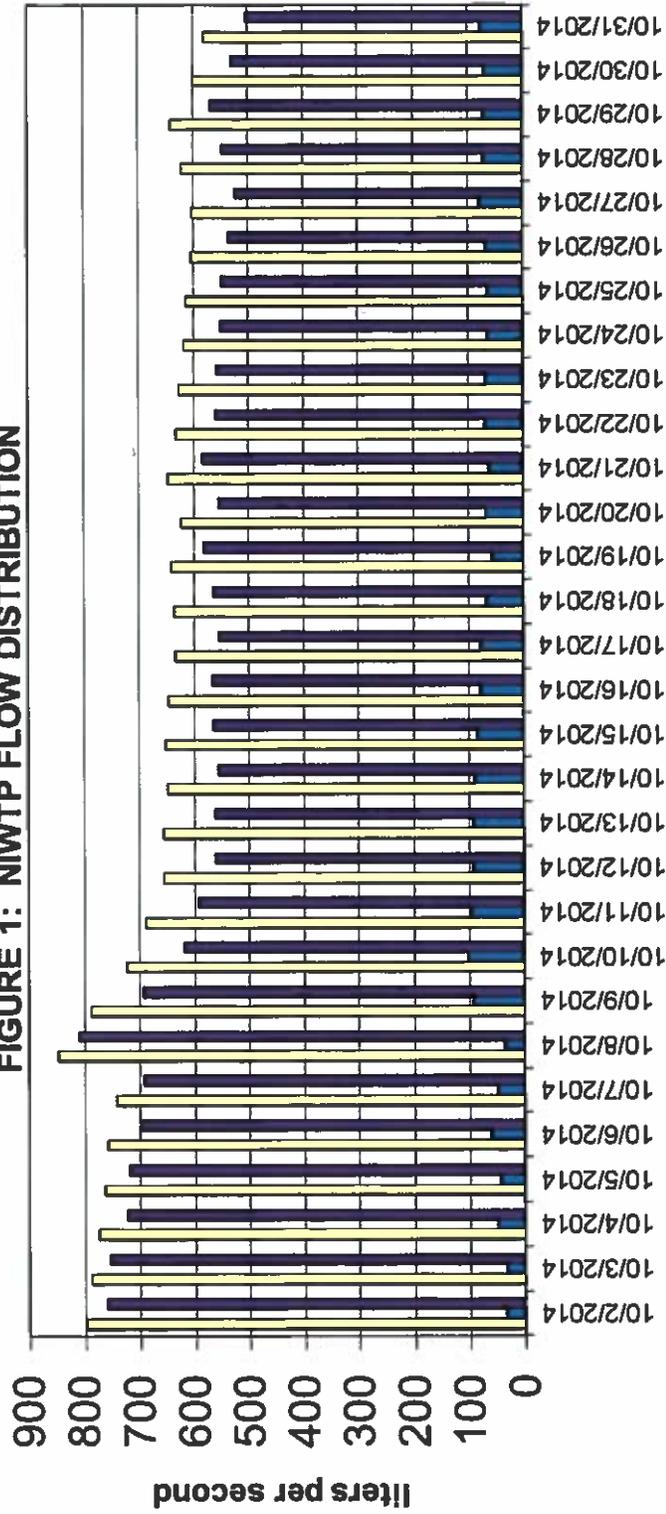
Pollutant	MAHL KG/DAY				MAHL KG/MOS				Exceedance first impacts:
	MAHL Safety (lb/day)	AHL _{eff} (kg/day)	AHL _{max} (kg/day)	AHL _{max} (kg/day)	MAHL Safety (kg/day)	AHL _{eff} (kg/30 days)	AHL _{max} (kg/30 days)	AHL _{max} (kg/30 days)	
Arsenic	2.3	5.07	5.57	1.39	1.04	152	167	42	31.3 solids
Cadmium	0.41	0.82	289.95	0.25	0.19	25	8699	7	5.58 solids
Chromium	1.69	45.23	60.22	1.02	0.77	1357	1807	31	23.0 solids
Copper	12.64	7.65	15.05	41.82	5.73	229	452	1264	172 effluent
Cyanide	5.03	3.04	23.42	-	2.28	91	703	-	68.4 effluent
Lead	1.47	0.89	27.88	1.37	0.67	27	836	41	20.0 effluent
Mercury	0.08	0.050	30.67	0.054	0.04	1.5	920	1.6	1.09 effluent
Nickel	13.83	9.62	21.19	8.36	6.27	288	636	251	188 solids
Selenium	0.55	0.37	-	0.34	0.25	11	-	10	7.48 solids
Silver	1.84	1.47	-	1.12	0.83	44	-	33	25.0 solids
Zinc	26.74	-	16.17	79.40	12.1	-	485	2382	364 inhibition
1,4-Dichlorobenzene	8.87	5.36	278.80	5.70	4.02	161	8364	171	121 effluent

Table 3: 4th quarter of 2014
 AHL based on recorded flows
 Reflects monthly average in which pretreatment monitoring took place
 Highlights/hold contaminants and loadings where exceedances are taking place

Loadings Summary and Processes Impacted Based on Monthly Totals

Pollutant	MAHL Arizona (kg/mo)	MAHL Sonora (kg/mo)	MAHL TOTAL (kg/mo)	Actual Loadings Arizona (kg/mo)	Actual Loadings Sonora (kg/mo)	Actual Loadings Sonora Exc (kg)	Actual Loadings Sonora Exc (%)	Actual Loadings Total (kg/mo)	Processes Impacted by Total Loadings*
Arsenic	3.38	29.31	32.69	1.30	6.20			7.67	
Cadmium	0.60	5.22	5.83	0.19	0.60			0.82	
Chromium	2.48	21.53	24.02	0.16	26.76	5.23	24%	27.15	Solids
Copper	18.58	161.06	179.64	0.15	113.98			140.30	
Cyanide	7.39	64.09	71.49	0.13	0.00			2.55	
Lead	2.16	18.73	20.89	0.14	7.76			7.87	
Mercury	0.12	1.02	1.14	0.10	0.16			0.27	
Nickel	20.33	176.22	196.55	0.15	55.09			57.37	
Selenium	0.81	7.01	7.82	0.18	0.19			0.48	
Silver	2.70	23.44	26.15	-1.24	1.36			0.00	
Zinc	39.31	340.71	380.02	0.18	232.45			305.64	
1,4-Dichlorobenzene	13.04	113.02	126.06	0.00	0.00			0.00	

FIGURE 1: NIWTP FLOW DISTRIBUTION

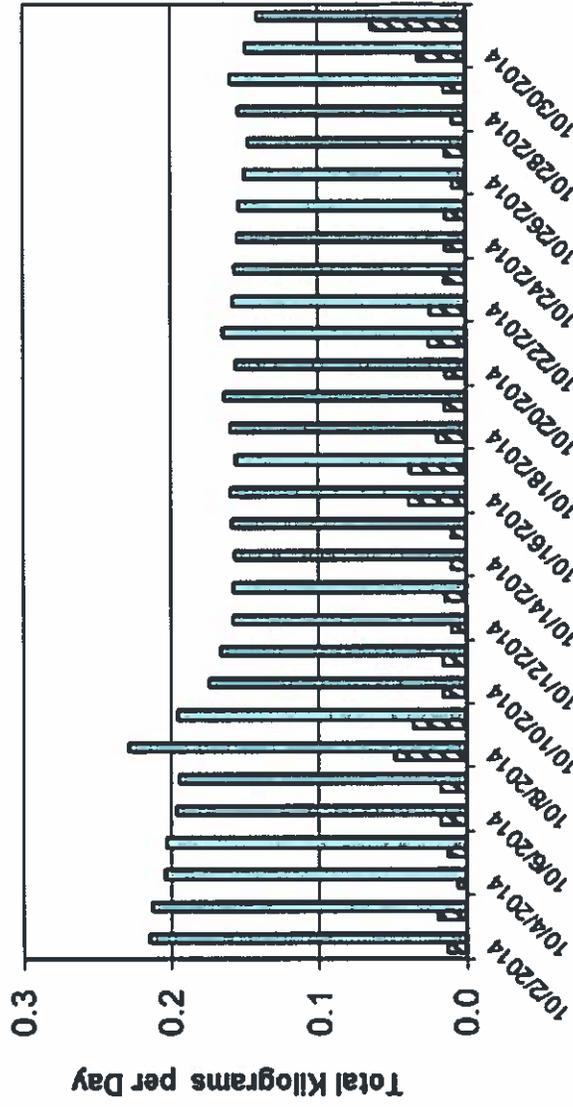


4th QTR 2014



Cadmium

FIGURE 3: Cadmium (Cd) Daily Loading NWTP Border Station

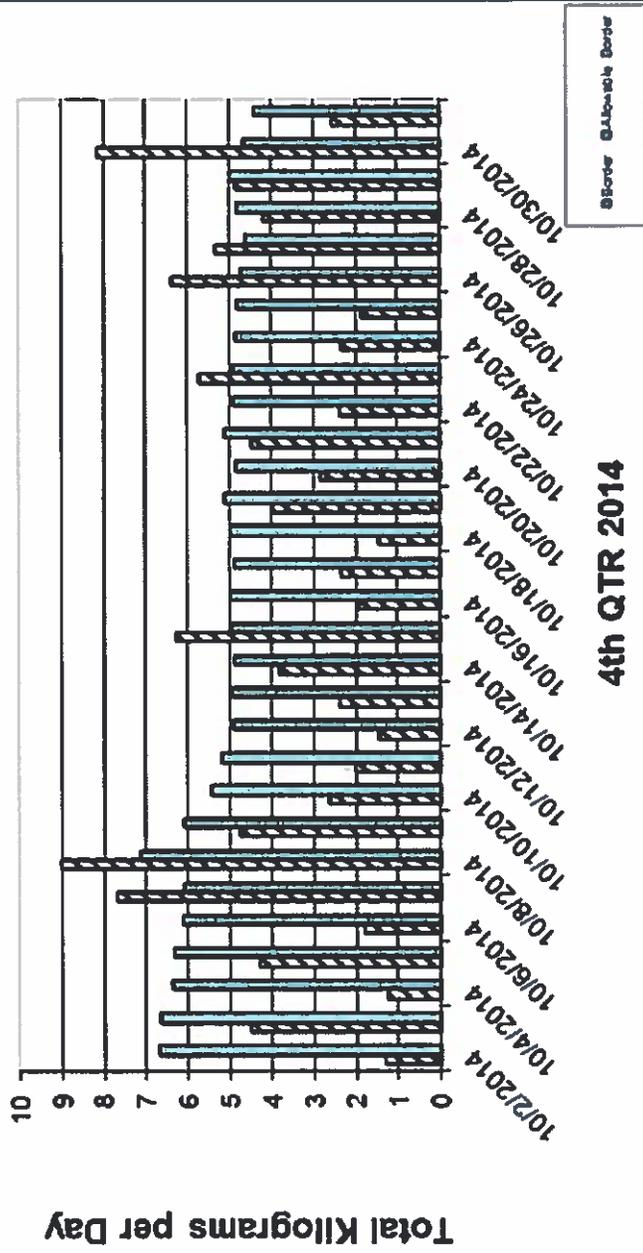


4th QTR 2014

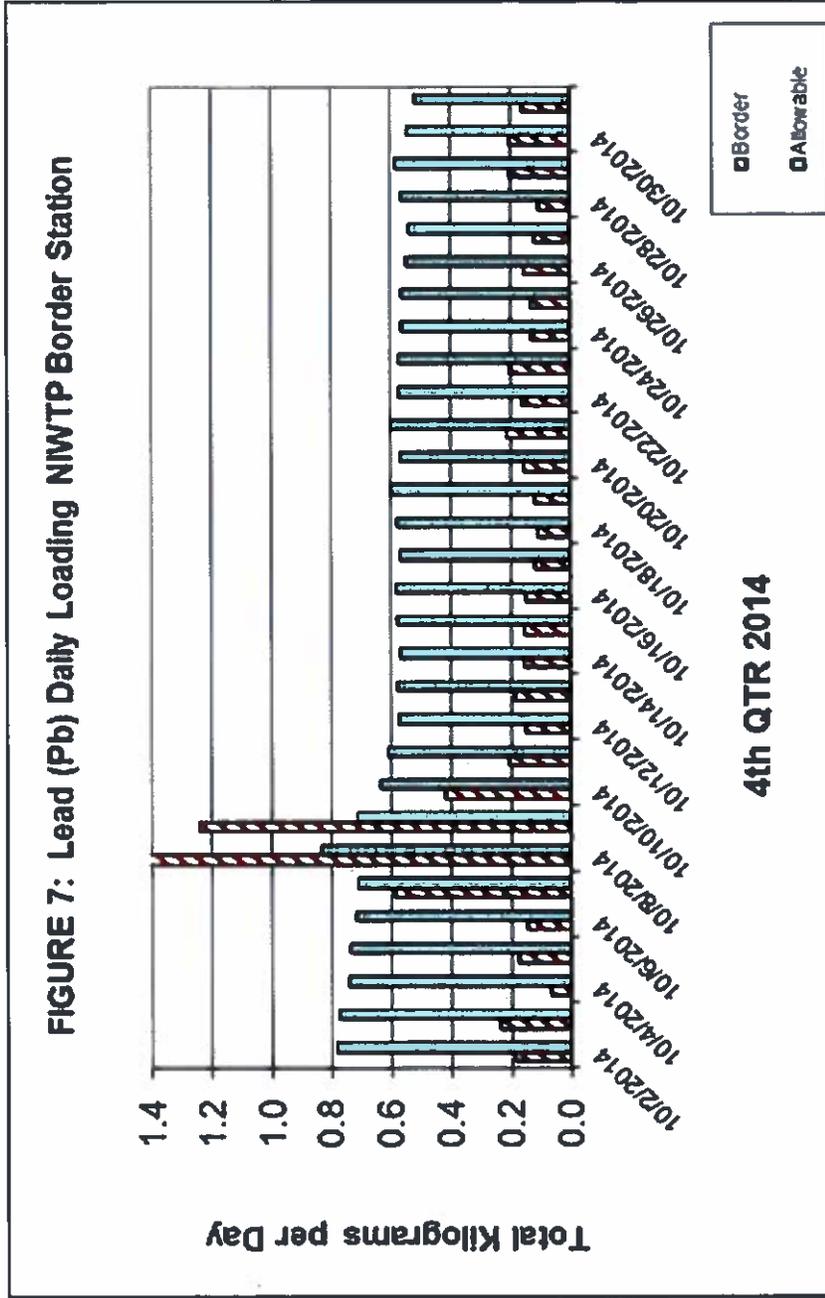
Border Allowable Border

Copper

FIGURE 5: Copper (Cu) Daily Loading NIWTP Border Station

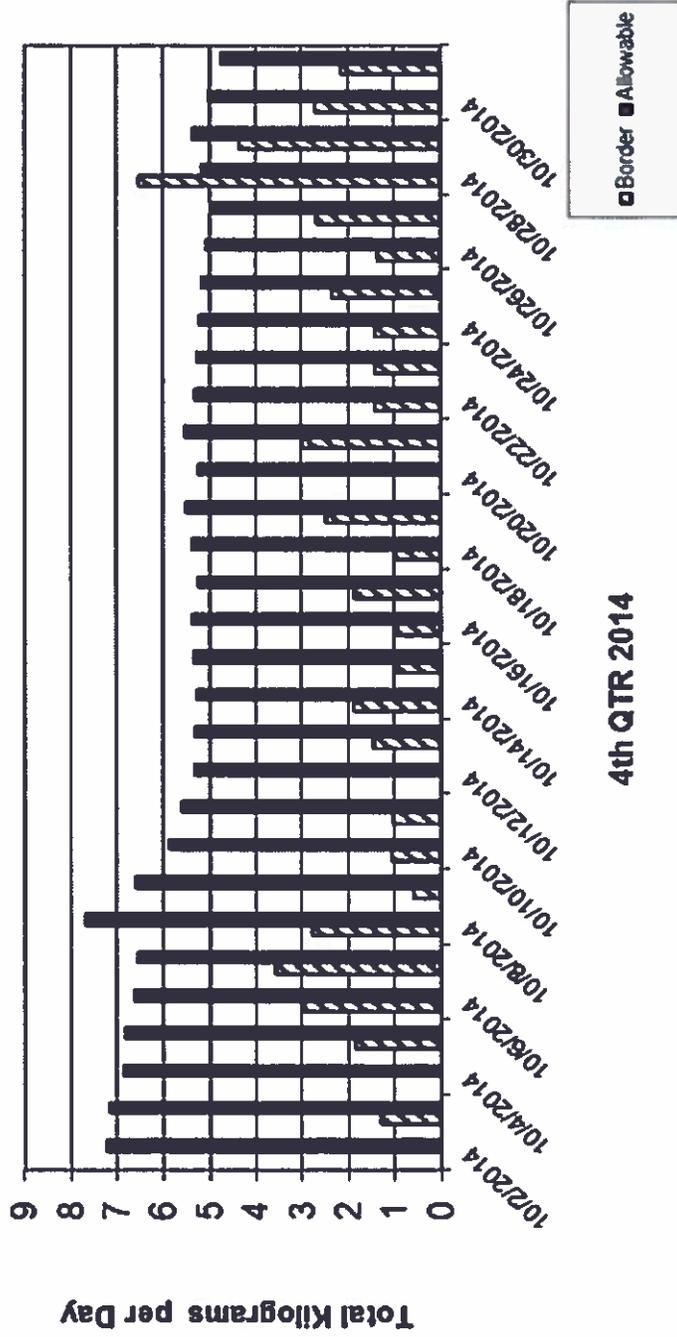


Lead



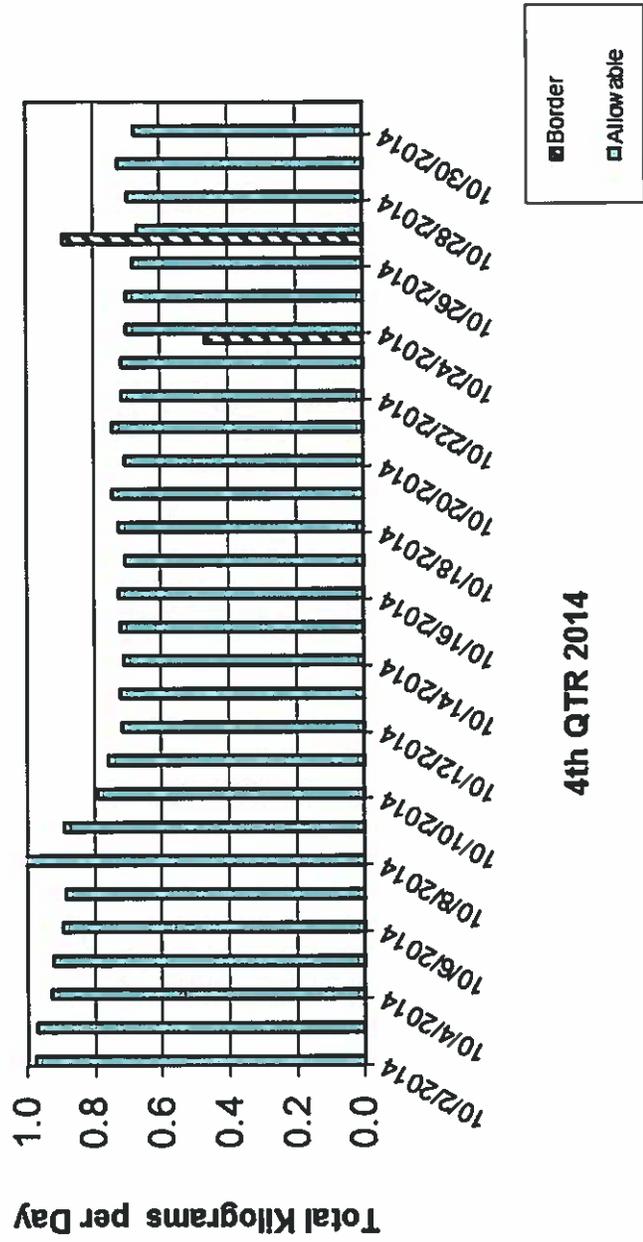
Nickel

Figure 9: Nickel (Ni) Daily Loading NWTP Border Station



Silver

FIGURE 11: Silver (Ag) Daily Loading NIWTP Border Station



4th QTR 2014

**U.S. International Boundary and Water Commission (IBWC)
Binational Technical Committee (BTC) Meeting
Espelndor Resort, Rio Rico, Arizona
September 10, 2014**

Minutes

IBWC, US and Mexico opened the meeting with welcome and introduction. Sign in sheet is attached.

OOMAPAS provided the first presentation. They provided an update on their work in the characterization of the sub-collectors, the status of the pretreatment program, a list of assistance programs, and future actions.

OOMAPAS-NS has put a hold on collector sampling given concerns over stormwater in the collection system. OOMAPAS plans to continue wastewater characterization in the subcollectors in mid to late September once stormwater issues diminish. Additionally, they have prepared a request for BECC funding to assist in purchasing more equipment to include an S:CAN analyzer.

The City of Nogales, Arizona followed OOMAPAS to discuss their efforts to sample for zinc to determine possible US sources of high zinc levels. The city noted that to date they have collected samples at several locations and have had non-detects. They proposed that a possible source could be zinc present in galvanized pipes in older homes. They also noted that their lab stated that some sampling bottles from China have been contaminated in the past.

(Note: the USIBWC laboratory stated that they only purchase from US manufacturers and test each lots themselves for verification of certificates of compliance.)

A question was asked if they are using 2 labs for verification of the results but the city replied they are only using 1 lab.

ADEQ gave a presentation on binational impacts of stormwater and sanitary sewer overflows (SSOs). The presentation noted that a flow meter was installed on the Morley Avenue Bridge in 2010 to monitor flow in the Nogales Wash. The data from the meter is available real time on the internet and can detect runoff from small storms effectively.. ADEQ monitors the gage for anomalous flows in the wash after large storms. When this occurs, ADEQ communicates the issue to the IBWC for consultation with Mexico. If the anomalous flows are confirmed to be associated with a sanitary sewer overflow, IBWC redirects the flows back into the sewer system at manhole 24.

ADEQ noted that In July, an SSO originating from Sonora went unreported and unmitigated for 12 days. Given concerns over poor communication, ADEQ is now monitoring and sampling SSOs that are not diverted back into the collection system. Sampling has detected chromium in the Nogales Wash at the Morley Avenue Tunnel exit, and further downstream where water infiltrates into the shallow aquifer. Given that chlorination is taking place in the wash, oxidizing conditions can promote the formation of hexavalent chromium, which is a known carcinogen. This is a concern to Arizona should an unreported SSO take place during a slug discharge of metals to the conveyance. In this context, ADEQ notes that SSOs need to be mitigated in Mexico at their source. If mitigation is not possible, communication with IBWC must take place as soon as possible for mitigation at manhole 24. The issue further highlights the need for adequate pretreatment, since chromium is being detected at the Morley Avenue Tunnel exit where the wash daylights from Mexico, and further downstream where surface water recharges the aquifer.

ADEQ also noted that recent storm events have moved large amounts of concrete debris and trash into the Nogales Wash and the Santa Cruz River. The concrete debris is putting a Nogales, Arizona sewer line at risk. Photos of a large debris dam on the Santa Cruz River show that most of the bottles have writing in Spanish.

- The locations and procedures used to collect the quarterly sampling.
- Identification of any changes or additions to the industrial users identified in the MAHA.
- Any additional data collected around the recommendations of the MAHA, including any BOD, TSS and ammonia removal across the WWTP.
- A list of all the sampling and flow monitoring equipment available and that which has been requested by OOMAPAS or others.
- Contacts for the analytical labs to be used to coordinate analytical methods.

ADEQ offered to provide a number of reports and databases for the US side. It was asked if the study will look at the whole system which was affirmed. It was also asked if we would look at limiting analyses to those required at the sources, which were answered affirmative. USIBWC suggested that the equipment specified for the study not be limited to what is currently available but rather to provide suggestions for equipment needs.

USIBWC read an email from the USEPA noting their regret at not attending and their affirmation and commitment to the area. USIBWC provided an informal summary of the email from EPA voicing support for

1. Ensuring adequate communication regarding SSOs to include preplanning for construction projects.
2. Assessment of pretreatment and metals in the wastewater conveyance system.
3. Solid waste is an issue in the TJ watershed; this committee needs a similar focus in the Ambos Nogales watershed.
4. Focus on education and outreach regarding trash collection.

The committee was informed that the next meeting would be scheduled with input when the draft study and the next quarter data were ready.

Meeting adjourned at 1300.

**U.S. International Boundary and Water Commission (IBWC)
Binational Technical Committee (BTC) Meeting
Espelndor Resort, Rio Rico, Arizona
February 12, 2014**

**Summary Prepared by Hans Huth
Arizona Department of Environmental Quality (OBEP)
Office of Border Environmental Protection (ADEQ)
520-628-6711**

On February 12, the IBWC hosted a meeting of the BTC in Rio Rico, Arizona. In attendance were representatives from the Mexican section of IBWC (CILA in Spanish); the Mexican Federal Department of Water Resources (CONAGUA in Spanish); the Nogales, Sonora Drinking Water and Wastewater Utility (OOMAPAS-NS in Spanish); the Nogales, Sonora Institute for Municipal Planning (IMIP in Spanish); the Nogales, Sonora chapter of Environmental Health Specialists (APSA in Spanish); the City of Nogales, Arizona (CON), staff from ADEQ's OBEP, and ADEQ-SRO compliance. Highlights of the meeting follow:

Nogales International Wastewater Treatment Plant (NIWTP) AZPDES Permit

OBEP staff initiated the meeting with a presentation entitled "AZPDES-Permit Modifications to Improve Communication and Binational Support". The presentation summarized new requirements in the AZPDES permit focused on improving communication with regulators and the regulated community in Nogales, Sonora. PowerPoint templates developed by ADEQ in coordination with OOMAPAS-NS, APSA and IBWC were used to report wastewater quality data for quarters two and three of 2013. Associated monitoring identifies copper as a new emerging contaminant sourced to Sonoran influent. (Staff deferred 4th quarter monitoring data to IBWC.) OBEP staff closed by highlighting opportunities in the new permit to explore alternative monitoring technologies for wastewater characterization in order to address historical BTC recommendations. The presentation was developed and delivered in Spanish to ensure CILA clearly understood requests and expectations associated with the new AZPDES permit. An SRO compliance officer was present to answer any compliance-related questions about the permit.

IBWC Presentation of 4th Quarter Wastewater Quality Monitoring Data

Staff from IBWC presented 4th Quarter wastewater quality monitoring data. IBWC highlighted problems with nickel sourced to Sonora which had been causing problems with plant discharges. OBEP staff asked why relatively high loadings of copper, chromium and zinc sourced to Sonora data were missing; IBWC responded that since associated parameters had not triggered a DMR exceedance, it was not necessary to mention these contaminants. OBEP suggested that respective contaminants should be mentioned since Sonora's contributions were at or above its allowable loadings. OBEP suggested that advance notice can help Sonoran stakeholders get ahead of future issues.

City of Nogales, Sonora Municipal Pretreatment Program

In response to wastewater-quality concerns raised by IBWC, OOMAPAS-NS summarized collector-monitoring activities for source characterization of nickel in wastewater. OOMAPAS-NS sourced nickel to the Nuevo Nogales collector which is servicing a new industrial park. OOMAPAS-NS is not yet clear on the specific source, but is investigating.

OOMAPAS-NS concluded with a summary of laboratory needs. OOMAPAS-NS noted that maintenance of its flame-AA unit will require a \$10,000 investment for calibration and lamp replacement. The flame-AA is essential for realizing laboratory certification for metals analysis and is also important for independent source characterization by the municipality. OOMAPAS-NS communicated it does not have the resources to address the need. The unit was originally purchased through a \$60,000 grant from an EPA Border 2012 Program. OOMAPAS-NS cost-matched the investment through construction of a laboratory to house the unit.

**Binational Meeting
Ambos Nogales – Technical Committee**

DATE: February 12, 2014

**LOCATION: Esplendor Resort
1069 Camino Caralampi, Rio Rico, Arizona 85648**

TIME: 10:00 a.m

AGENDA

- Presentation of participants and meeting objectives.
- New Arizona discharge permit for the NIWTP. (ADEQ)
- Quarterly testing and reporting. (USIBWC)
- NIWTP sampling results for 4th quarter 2013. (USIBWC)
- Training on Handling of Wastewater Containing Metals and Cyanide. Asociación de Protección y Seguridad Ambiental (APSA)
- Operations and future projects for the Los Alisos treatment plant. (OOMAPAS)
- Pretreatment program for Nogales, Sonora (OOMAPAS).
- Pretreatment program for Nogales, Arizona (City of Nogales, Arizona).
- Development of wastewater characterization study in Ambos Nogales. (IBWC)
- Action Items
- Conclusions.
- Next meeting date.

**Binational Meeting
Ambos Nogales – Technical Committee**

DATE: June 25, 2014

TIME: 08:30 am – 11:30 am

LOCATION: 2474 South 22nd Avenue, Phoenix, AZ 85009.
You will need a formal picture ID will be required to enter the facility (driver's license, passport, etc.). Cameras and photos of the S:CAN installation are welcome.

AGENDA

- Tour of the 22nd street wastewater treatment plant technology for influent monitoring using S:CAN.

TIME: 1:00 pm – 3:00 pm

LOCATION: Mexican Consulate, 320 E McDowell Rd, Phoenix, AZ 85004

AGENDA

- Review of the 2nd quarter pretreatment testing
- Review of the waste characterization study scope of work
- Open discussion