IRVINGTON LANDFILL, TUCSON, ARIZONA
ANNUAL ENVIRONMENTAL REPORT

Prepared for:
THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
SOLID WASTE PLAN REVIEW UNIT
AQUIFER PROTECTION PERMIT NO. 50044800.00

JANUARY THROUGH DECEMBER 2015

January 27, 2016

Prepared by:
City of Tucson
Environmental Services
P.O. Box 27210
Tucson, Arizona 85726-7210

CITY OF TUCSON
ENVIRONMENTAL SERVICES

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	GROUNDWATER MONITORING	1
3.0	METHANE GAS MONITORING PROBE ANALYSIS	1
4.0	DEEP SOIL VAPOR MONITORING	1
5.0	ANNUAL SITE INSPECTIONS	2
6.0	WEATHER EVENT SITE INSPECTIONS	2

LIST OF FIGURES

Figure 1 Location Map
Figure 2 Site Map

LIST OF EXHIBITS

Exhibit 1 Methane Monitoring Results
Exhibit 2 Annual Site Inspection Reports
Exhibit 3 Weather Event Inspection Reports

1.0 INTRODUCTION

The City of Tucson - Environmental Services Department (COT-ES) has prepared this report to document methane and soil gas monitoring and the annual site inspections performed at the Irvington Landfill during the year 2015 as required by Aquifer Protection Permit (APP) No. 50044800.00 approved by the Arizona Department of Environmental Quality (ADEQ) on May 28, 2009. The Irvington Landfill is located on the east side of the City of Tucson, Arizona at 10000 Irvington Road, near the intersection of Irvington Road and Houghton Road. The location of the Irvington landfill is shown on **Figure 1**. The Irvington Landfill operated from 1978 to 1988.

2.0 GROUNDWATER MONITORING

In March of 2014, ADEQ[1] approved a reduction in the frequency of post-closure groundwater monitoring at the Irvington Landfill from an annual basis to a biennial basis (one sampling event every two years). The most recent annual groundwater sampling event was conducted by the COT-ES at the Irvington Landfill in 2014. In accordance with the March 2014 ADEQ approval, groundwater sampling and analysis activities were not conducted in 2015. The next annual groundwater sampling event is scheduled for February of 2016.

3.0 METHANE GAS MONITORING PROBE ANALYSIS

There are 14 methane gas monitoring probes, designated as probes IRV-1 through IRV-14, located around the perimeter of the Irvington Landfill. The location of the probes is shown on **Figure 2**. The COT- ES monitored gas probes IRV-1 through IRV-14 on a quarterly basis in January, April, July and October 2015 for the presence of methane in the shallow subsurface soils. Each probe is constructed to allow for a soil gas (methane) sample to be collected at depths of 10 feet and 25 feet below the ground surface.

Methane concentrations in the perimeter landfill gas probes were below the equipment detection limit at each probe location for each of the four sampling events in 2015. The measurement range for each methane measurement is 0% to 100% and the accuracy for each measurement is ± 0.3%. **Exhibit 1** contains the quarterly soil vapor (methane) field monitoring summary sheets for the year 2015.

4.0 DEEP SOIL VAPOR MONITORING

In March 2014, ADEQ[1] approved a reduction in the voluntarily deep soil vapor monitoring frequency from triennially (one sampling event every three years) to quadrennial (one sampling event every four years). The deep soil vapor sampling was not performed in 2015. The next deep soil vapor monitoring event is scheduled for February of 2018.

---

[1] ADEQ, *RE: Irvington Landfill, Aquifer Protection Permit (APP) No. 50044800.00, 2013 Annual Report for Groundwater and Methane Monitoring, Landfill Inspections*, March 27, 2014

5.0 ANNUAL SITE INSPECTIONS

Site inspections of the Irvington Landfill are required on a quarterly basis under a condition specified in the APP. During 2015, site inspections were conducted by Engineering and Environmental Consultants, Inc. (EEC) from Tucson, Arizona in August and November. There were no site inspections completed in the first two quarters of 2015. The inspection reports are provided in **Exhibit 2.**

The August 2015 and November 2015 site inspection reports identified minor soil erosion on the slope of the storm water retention basin, near a portion of the perimeter fence and along a small portion of the south perimeter road. Maintenance of these areas of the landfill is being scheduled for 2016.

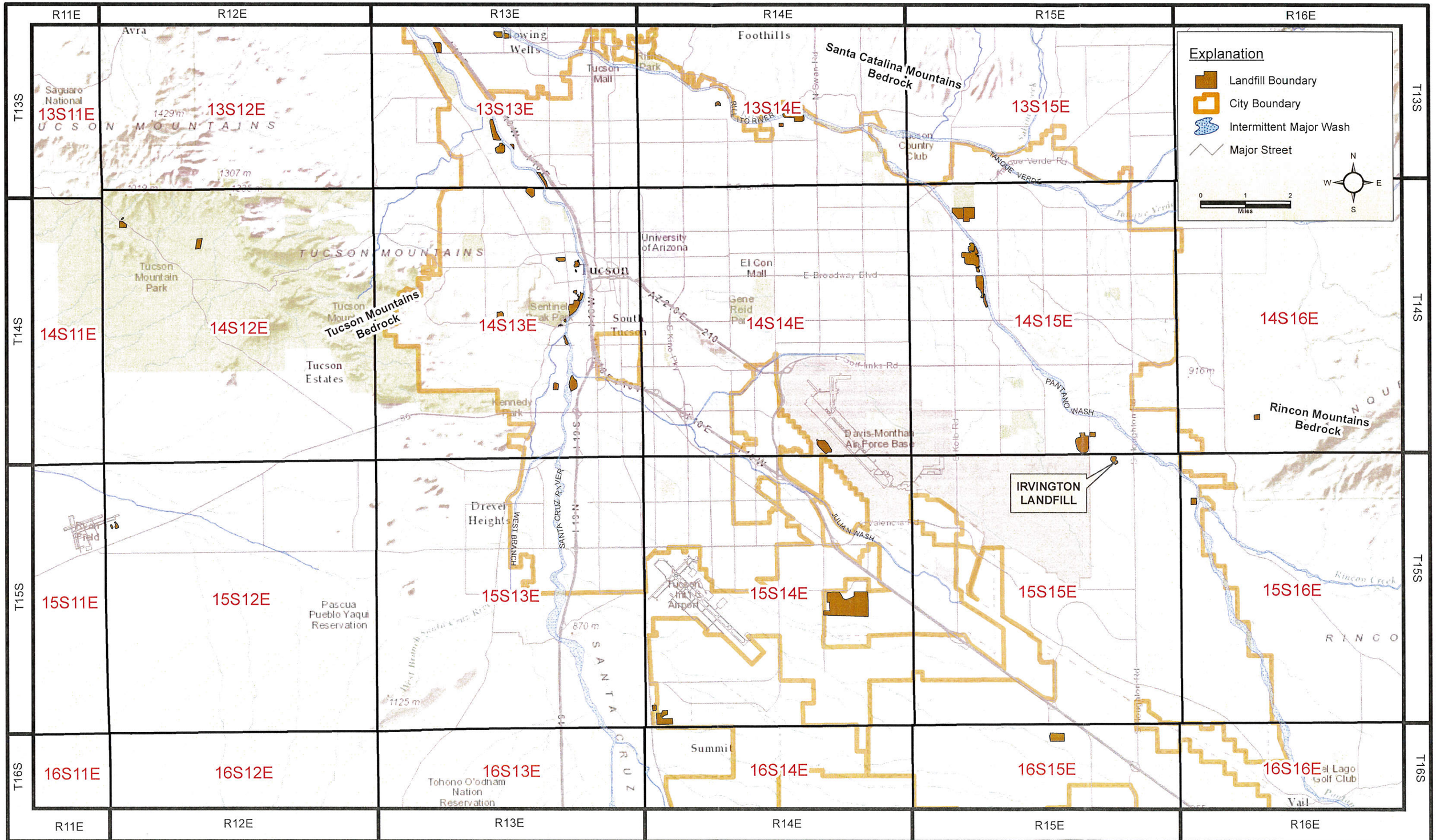
6.0 WEATHER EVENT SITE INSPECTIONS

There were four weather event site inspections conducted by the COT-ES in 2015, as required in APP No. 50044800.00. Information concerning the weather event site inspections is provided below:

Date of Weather Event	Description of Weather Event	Discrepancy Observed	Correction Action Taken
January 30, 2015	1.30 inches of rain	None	None
February 12, 2015	Wind Speed of 28 Miles per Hour	None	None
February 28, 2015	Wind Speed of 25 Miles per Hour	Fence Loose at Mesquite Ranch Wash	Repair Scheduled for April 15, 2015
March 6, 2015	Wind Speed of 25 Miles per Hour	Fence Loose at Mesquite Ranch Wash	Repair Scheduled for April 15, 2015

The repair of the loose fence at the Mesquite Ranch Wash was not completed in the year 2015. Repair of this fence is scheduled for the first quarter of 2016. **Exhibit 3** contains copies of the reports documenting the results of these inspections.

Figures

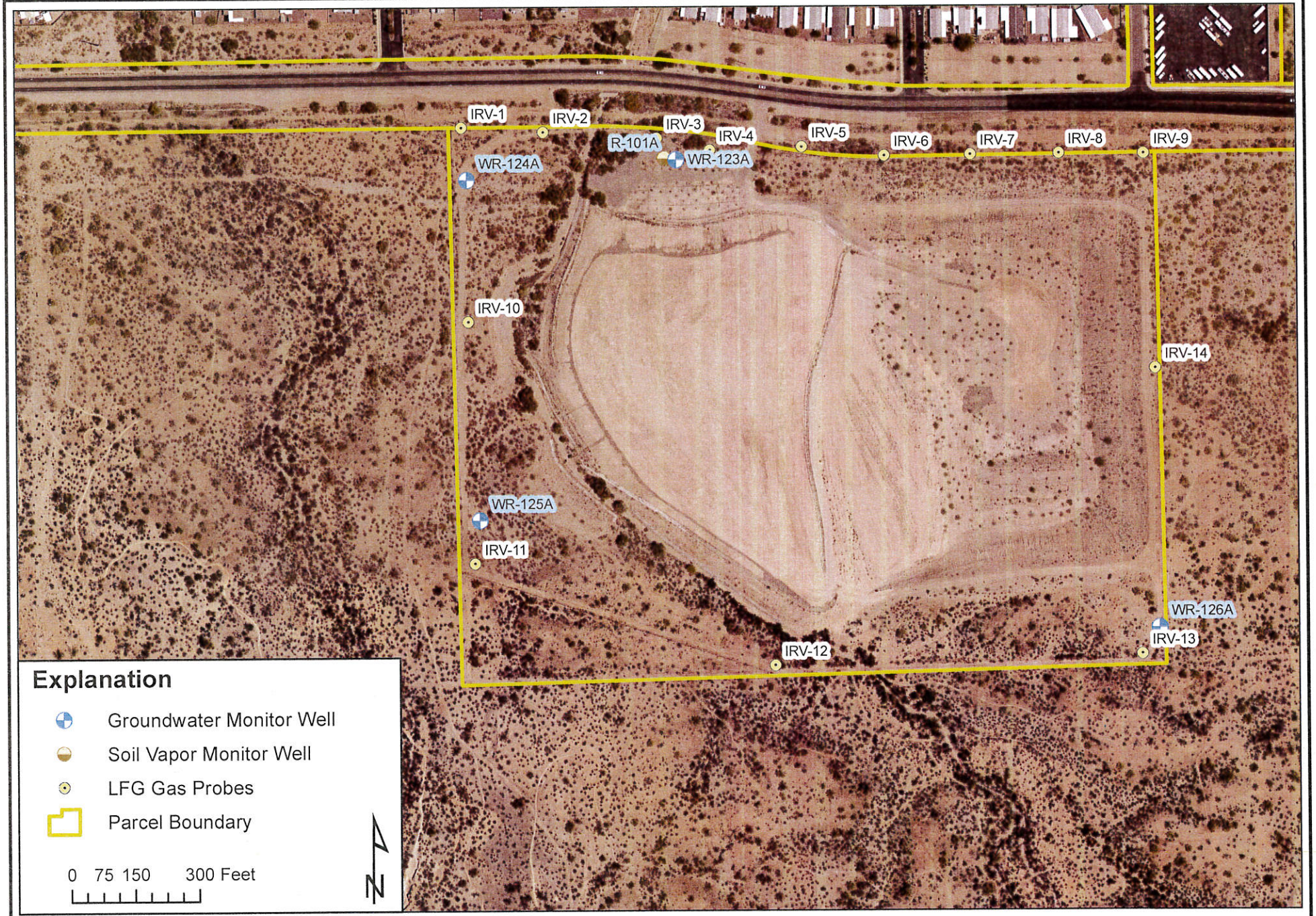


CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 1
Location Map
Irvington Landfill

Drawn By:	LE
Checked:	DB
Approved:	NP
Date:	12/29/2014
File:	See Below

F:\GIS\Irvington 2012 Location Map.mxd



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 2
Irvington Landfill
Site Map

Drawn By:	AB
Checked:	DB
Approved:	DB
Date:	6/24/2015
File:	See Below

S:\Mapdata\Irvington\2015\Site map.mxd

Exhibit 1

Methane Monitoring Results

Irvington Landfill
Methane Monitoring
Wells (all, Quarterly)

Device ID	Date/Time	CH4	CO2	O2	Balance	Baro. Press.	Rel. Pressure
		%	%	%	%	inches Hg	inches H2O
IR000110	1/13/2015 9:58	0.0	0.6	19.3	80.1	27.2	0.00
IR000125	1/13/2015 10:00	0.0	0.9	19.0	80.1	27.2	0.01
IR000210	1/13/2015 10:02	0.0	0.4	19.6	80.0	27.2	0.01
IR000225	1/13/2015 10:05	0.0	1.1	18.8	80.1	27.2	0.02
IR000310	1/13/2015 10:14	0.0	1.8	18.8	79.4	27.2	0.00
IR000325	1/13/2015 10:16	0.0	3.2	17.8	79.0	27.2	0.03
IR000410	1/13/2015 10:20	0.0	2.0	18.7	79.3	27.2	0.02
IR000425	1/13/2015 10:23	0.0	2.7	17.4	79.9	27.2	0.05
IR000510	1/13/2015 10:25	0.0	1.5	19.2	79.3	27.2	0.00
IR000525	1/13/2015 10:28	0.0	3.4	17.6	79.0	27.2	0.06
IR000610	1/13/2015 10:30	0.0	0.9	18.9	80.2	27.2	0.03
IR000625	1/13/2015 10:33	0.0	1.7	17.4	80.9	27.2	0.05
IR000710	1/13/2015 10:39	0.0	0.6	19.8	79.6	27.2	0.01
IR000725	1/13/2015 10:41	0.0	0.1	20.3	79.6	27.2	0.04
IR000810	1/13/2015 10:44	0.0	1.1	19.5	79.4	27.2	0.02
IR000825	1/13/2015 10:46	0.0	2.0	18.6	79.4	27.2	0.07
IR000910	1/13/2015 10:48	0.0	0.6	19.7	79.7	27.2	0.03
IR000925	1/13/2015 10:50	0.0	0.8	19.6	79.6	27.2	0.05
IR001010	1/13/2015 10:55	0.0	0.4	20.1	79.5	27.2	0.01
IR001025	1/13/2015 10:57	0.0	0.4	19.9	79.7	27.1	0.05
IR001110	1/13/2015 11:00	0.0	0.3	20.2	79.5	27.1	0.04
IR001125	1/13/2015 11:02	0.0	0.3	20.0	79.7	27.1	0.08
IR001210	1/13/2015 11:06	0.0	0.4	20.0	79.6	27.1	0.06
IR001225	1/13/2015 11:09	0.0	0.8	19.6	79.6	27.1	0.09
IR001310	1/13/2015 9:43	0.0	0.5	20.3	79.2	27.2	0.00
IR001325	1/13/2015 9:46	0.0	0.0	20.6	79.4	27.2	0.01
IR001410	1/13/2015 9:48	0.0	0.4	20.0	79.6	27.2	0.00
IR001425	1/13/2015 9:51	0.0	0.0	20.4	79.6	27.2	0.02

Note: GEM2000 ID: 11158 Monitored by: J. Montante

GEM2000 was calibrated using 15% methane (see J.M. calibration sheet for this date).

Pressure readings were taken with the D.S. Mark III "K" digital manometer.

Accuracy of the machine is +/-0.3% at methane concentrations of less than <5.0%.

J Montante
1-13-15

Irvington Landfill
Methane Monitoring
(All, quarterly)

Device ID	Date/Time	CH4	CO2	O2	Balance	Baro. Press.	Rel. Pressure
		%	%	%	%	inches Hg	inches H2O
IR000110	4/3/2015 7:50	0.0	0.8	19.8	79.4	27.1	0.00
IR000125	4/3/2015 7:53	0.0	0.8	19.7	79.5	27.1	-0.02
IR000210	4/3/2015 7:58	0.0	0.6	20.2	79.2	27.1	0.00
IR000225	4/3/2015 8:00	0.0	0.5	20.2	79.3	27.1	-0.01
IR000310	4/3/2015 8:47	0.0	2.9	17.7	79.4	27.2	-0.01
IR000325	4/3/2015 8:49	0.0	2.5	17.9	79.6	27.2	-0.01
IR000410	4/3/2015 8:54	0.0	2.8	17.9	79.3	27.1	-0.02
IR000425	4/3/2015 8:56	0.0	2.3	18.1	79.6	27.2	-0.03
IR000510	4/3/2015 9:11	0.0	3.5	17.1	79.4	27.2	-0.01
IR000525	4/3/2015 9:13	0.0	2.8	17.5	79.7	27.2	-0.01
IR000610	4/3/2015 9:18	0.0	2.1	18.1	79.8	27.2	0.00
IR000625	4/3/2015 9:20	0.0	2.3	17.7	80.0	27.2	-0.01
IR000710	4/3/2015 8:17	0.0	1.1	19.2	79.7	27.1	0.00
IR000725	4/3/2015 8:19	0.0	0.4	19.8	79.8	27.1	0.00
IR000810	4/3/2015 8:23	0.0	1.2	19.0	79.8	27.1	0.00
IR000825	4/3/2015 8:25	0.0	1.1	18.6	80.3	27.1	-0.01
IR000910	4/3/2015 8:32	0.0	1.4	18.9	79.7	27.1	0.00
IR000925	4/3/2015 8:34	0.0	1.9	18.3	79.8	27.1	-0.01
IR001010	4/3/2015 9:30	0.0	0.4	19.3	80.3	27.1	0.00
IR001025	4/3/2015 9:34	0.0	0.2	19.7	80.1	27.1	0.00
IR001110	4/3/2015 9:40	0.0	0.5	19.3	80.2	27.1	0.00
IR001125	4/3/2015 9:43	0.0	0.2	19.6	80.2	27.1	-0.02
IR001210	4/3/2015 9:54	0.0	0.7	19.3	80.0	27.1	0.00
IR001225	4/3/2015 9:57	0.0	0.4	19.7	79.9	27.1	-0.02
IR001310	4/3/2015 7:26	0.0	0.1	20.7	79.2	27.1	-0.02
IR001325	4/3/2015 7:30	0.0	0.1	20.6	79.3	27.1	-0.05
IR001410	4/3/2015 7:38	0.0	2.0	18.6	79.4	27.1	0.00
IR001425	4/3/2015 7:43	0.0	1.5	18.9	79.6	27.1	0.00

Note: GEM2000 ID: 11159 Monitored by: H. Vimislik H. Vimislik

GEM2000 was calibrated using 15% methane (see H V.calibration sheet on this date) 4-3-15

Pressure readings were taken using Dwyer Series Mark III "H" digital manometer

Accuracy of the machine is +/- 0.3% at methane concentrations of less than <5.0%.

Irvington
Methane Monitoring
(All, quarterly)

Device ID	Date/Time	CH4	CO2	O2	Balance	Baro. Press.	Rel. Pressure
		%	%	%	%	inches Hg	inches H2O
IR000110	7/8/2015 9:49	0.0	0.9	18.2	80.9	27.01	0.00
IR000125	7/8/2015 9:51	0.0	1.1	17.6	81.3	27.03	0.01
IR000210	7/8/2015 9:56	0.0	1.1	18.1	80.8	27.03	0.00
IR000225	7/8/2015 9:58	0.0	1.2	18.1	80.7	27.03	0.00
IR000310	7/8/2015 8:25	0.0	2.6	18.3	79.1	27.01	-0.01
IR000325	7/8/2015 8:26	0.0	4.4	16.8	78.8	27.02	-0.01
IR000410	7/8/2015 8:33	0.0	3.1	17.5	79.4	27.03	0.00
IR000425	7/8/2015 8:35	0.0	5.2	15.5	79.3	27.03	0.00
IR000510	7/8/2015 8:41	0.0	3.7	16.5	79.8	27.03	0.00
IR000525	7/8/2015 8:43	0.0	5.5	15.0	79.5	27.03	0.00
IR000610	7/8/2015 8:48	0.0	2.1	17.2	80.7	27.04	0.00
IR000625	7/8/2015 8:50	0.0	2.8	16.6	80.6	27.03	0.00
IR000710	7/8/2015 9:01	0.0	0.8	18.3	80.9	27.04	0.00
IR000725	7/8/2015 9:03	0.0	0.4	18.9	80.7	27.03	0.00
IR000810	7/8/2015 9:08	0.0	0.5	18.9	80.6	27.03	0.00
IR000825	7/8/2015 9:10	0.0	1.2	17.9	80.9	27.02	0.00
IR000910	7/8/2015 9:15	0.0	1.2	18.3	80.5	27.02	0.00
IR000925	7/8/2015 9:17	0.0	2.2	17.2	80.6	27.02	0.00
IR001010	7/8/2015 10:30	0.0	0.4	18.6	81.0	27.02	0.01
IR001025	7/8/2015 10:32	0.0	0.3	18.6	81.1	27.01	0.01
IR001110	7/8/2015 10:38	0.0	0.5	18.5	81.0	27.01	0.00
IR001125	7/8/2015 10:42	0.0	0.7	18.1	81.2	27.01	0.01
IR001210	7/8/2015 10:53	0.0	0.7	18.1	81.2	27.01	0.00
IR001225	7/8/2015 10:55	0.0	1.9	17.1	81.0	27.01	0.01
IR001310	7/8/2015 10:10	0.0	0.7	18.6	80.7	27.03	0.00
IR001325	7/8/2015 10:12	0.0	1.1	18.0	80.9	27.02	0.01
IR001410	7/8/2015 10:18	0.0	1.6	17.8	80.6	27.02	0.00
IR001425	7/8/2015 10:20	0.0	3.0	16.4	80.6	27.02	0.00

Note: GEM2000 ID: 11159 Monitored by: H. Vimislik H. Vimislik

GEM2000 was calibrated using 15% methane (see H V.calibration sheet on this date) 7-8-15

Pressure readings were taken using Dwyer Series Mark III "D" digital manometer

Accuracy of the machine is +/- 0.3% at methane concentrations of less than <5.0%.

Irvington Landfill
Methane Monitoring
(all, Quarterly)

Device ID	Date/Time	CH4	CO2	O2	Balance	Baro. Press.	Rel. Pressure
		%	%	%	%	inches Hg	inches H2O
IR000110	10/14/2015 11:56	0.0	1.1	18.8	80.1	27.1	0.03
IR000125	10/14/2015 11:58	0.0	1.1	18.5	80.4	27.1	0.05
IR000210	10/14/2015 11:46	0.0	1.3	19.0	79.7	27.1	0.01
IR000225	10/14/2015 11:48	0.0	1.4	18.7	79.9	27.1	0.02
IR000310	10/14/2015 11:38	0.0	1.8	18.9	79.3	27.1	0.00
IR000325	10/14/2015 11:41	0.0	1.1	19.4	79.5	27.1	0.00
IR000410	10/14/2015 8:52	0.0	2.7	18.3	79.0	27.2	0.00
IR000425	10/14/2015 8:54	0.0	4.7	16.3	79.0	27.2	0.00
IR000510	10/14/2015 9:00	0.0	4.3	16.4	79.3	27.2	0.00
IR000525	10/14/2015 9:02	0.0	5.6	15.1	79.3	27.2	0.00
IR000610	10/14/2015 9:15	0.0	2.4	17.8	79.8	27.2	0.00
IR000625	10/14/2015 9:25	0.0	2.6	17.6	79.8	27.2	0.00
IR000710	10/14/2015 9:28	0.0	1.2	18.7	80.1	27.2	0.00
IR000725	10/14/2015 9:31	0.0	0.5	19.3	80.2	27.2	0.00
IR000810	10/14/2015 9:42	0.0	1.1	18.5	80.4	27.2	0.00
IR000825	10/14/2015 9:44	0.0	1.2	18.0	80.8	27.1	0.00
IR000910	10/14/2015 9:52	0.0	1.5	18.2	80.3	27.1	0.00
IR000925	10/14/2015 9:54	0.0	1.5	18.1	80.4	27.1	0.00
IR001010	10/14/2015 10:17	0.0	0.0	19.6	80.4	27.1	0.00
IR001025	10/14/2015 10:21	0.0	0.3	19.1	80.6	27.1	0.01
IR001110	10/14/2015 10:30	0.0	0.5	19.0	80.5	27.1	0.00
IR001125	10/14/2015 10:34	0.0	0.9	18.6	80.5	27.1	0.01
IR001210	10/14/2015 10:45	0.0	0.8	19.3	79.9	27.1	0.00
IR001225	10/14/2015 10:48	0.0	2.1	18.0	79.9	27.1	0.00
IR001310	10/14/2015 12:16	0.0	0.7	19.2	80.1	27.1	0.02
IR001325	10/14/2015 12:18	0.0	1.3	18.6	80.1	27.1	0.05
IR001410	10/14/2015 12:06	0.0	1.7	18.3	80.0	27.1	0.01
IR001425	10/14/2015 12:08	0.0	2.7	17.2	80.1	27.1	0.03

Note: GEM2000 ID: 11158 Monitored by: K. Virgone Kayla Virgone 10/14/15

GEM2000 was calibrated using 15% methane (see K.V. calibration sheet for this date).

Pressure readings were taken with the D.S. Mark III "H" digital manometer.

Accuracy of the machine is +/-0.3% at methane concentrations of less than <5.0%.

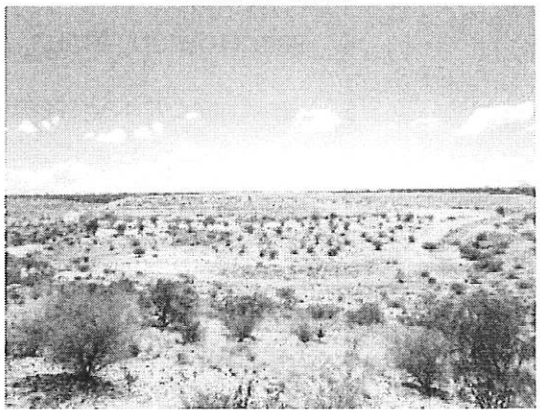
Exhibit 2

Annual Site Inspection Reports

2015 QUARTERLY CLOSED LANDFILL INSPECTION REPORT

IRVINGTON LANDFILL

AUGUST 2015



PREPARED FOR:

CITY OF TUCSON
PO BOX 27210
TUCSON, ARIZONA 85726-7210

Registered Professional Engineer (Civil)
CERTIFICATE NO.
10011
EDWIN BRUCE WILSON
Date Signed 8-11-2015
ARIZONA, U.S.A.

EXPIRES 12/31/2016

PREPARED BY:

ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.
4625 E. FT. LOWELL RD.
TUCSON, ARIZONA 85712
www.eec-info.com

EEC PROJECT NO. 11032.40
REPORT DATE: AUGUST 11, 2015

CONTENTS

SECTION — PAGE

1 INTRODUCTION 1

2 INSPECTION TABLE 1

3 SITE MAP 1

4 PRECIPITATION TOTALS 1

5 WEATHER EVENT INSPECTIONS 1

6 INSPECTION SUMMARY 2

- 6.1 Perimeter Security Fence and Gates 2
- 6.2 Inspection Roads 2
- 6.3 Stormwater Controls 2
- 6.4 Stormwater Retention Basins 2
- 6.5 Landfill Earthen Cap 3
- 6.6 Landfill Gas Extraction System Wellfield 3
- 6.7 Landfill Gas Extraction System Compound 3
- 6.8 Landfill Gas Monitoring Wells 3
- 6.9 Groundwater Monitoring Wells 3
- 6.10 Remediation Equipment 3
- 6.11 Illegal Dumping 3
- 6.12 Neighboring Land Uses 3

7 RECOMMENDED CORRECTIVE ACTION 3

ATTACHMENTS

A: FIGURES

Figure 1	Site Maps
Figure 2	Quarterly Precipitation Data
Figure 3	Quarterly Weather Event Summary Table
Figure 4	Site Inspection Table
Figure 5	Quarterly Inspection Photo-log

Registered Professional Engineer (Civil)
CERTIFICATE NO. 10011
EDWIN BRUCE WILSON
Date Signed 5-11-2015
ARIZONA U.S.A.
Expires 12/31/2016

eec

1 Introduction

This report documents the results of a quarterly field inspection performed on August 3, 2015 at the closed Irvington Municipal Landfill. Quarterly inspections are a requirement at the Irvington Landfill as outlined in the Aquifer Protection Permit (APP) issued in August 2010. Facility post closure inspection requirements span a 30 year period beginning in 2010 and concluding in 2030.

Field inspections are performed on a quarterly basis and follow the procedures outlined in "City of Tucson Closed Landfill Inspection and Maintenance Reporting and Procedures March 2011". This guidance document was internally prepared by the City of Tucson Environmental Services Depart (COT-ES). Key elements of the inspection report are:

- Inspection Table to record facility conditions
- Site Map showing corrective action(s)
- Facility precipitation data since the previous inspections
- Tally of weather event triggered inspections
- Narrative summary of facility conditions including recommended corrective actions(s) to be undertaken prior to the next scheduled inspection
- Inspection photo log

2 Inspection Table (Attached)

3 Site Map (Attached)

4 Precipitation Totals

Precipitation totals for Irvington Landfill are estimated using data from the Pima County Regional Flood Control District (PCRFCD), which maintains a network of rain gauges and gauge data throughout the county. The PCRFCD gauge closest to Irvington Landfill is #4180, located at Pantano and Houghton Roads, approximately one mile from the landfill. Since the last inspection report, gauge #4180 registered 4.29 inches of rain. Gauge data for this time period is attached to this report.

5 Weather Event Inspections

In addition to the required quarterly inspections, additional facility inspections are required for the Irvington Landfill in response to classified rainfall and wind events. A classified rainfall event triggering a site inspection is 0.5 inches or more of rainfall depth in a 24 hour period. A classified wind event triggering a site inspection is sustained wind speed greater than 25 miles

per hour for 60 or more minutes. There were no weather event inspection performed since the previous inspection

6 Inspection Summary

Quarterly field inspections of the Irvington Landfill are organized and conducted using the inspection report table included in the COT-ES inspection guidance document. A copy of the table filled out during this inspection is included in this report at the end of the text section. The table lists specific landfill items that must be inspected and provides space to comment on the conditions encountered during the inspection. The items inspected and the current conditions of these features at the Irvington Landfill are summarized as follows:

6.1 Perimeter Security Fence and Gates

The perimeter security fence and gates at Irvington Landfill are generally in satisfactory condition and the perimeter of the landfill property is secure. One area of erosion was observed beneath the eastern perimeter fence (see Photo 1). Repair of this erosion is recommended to prevent collapse of the fence posts. The section of fencing spanning the Mesquite Ranch Wash along the northern and southern boundary of the property sometimes requires repair following major storm events (see photo 2 and 3). Continued monitoring of these sections is required.

6.2 Inspection Roads

The majority of the maintenance access roads throughout the property are generally in good condition. The southern boundary road at the Mesquite Ranch Wash is washed out due to storm events, but full access to the property is possible using other perimeter gates and roads. A portion of the south boundary road approaching the Wash shows extensive erosion and may become impassable if erosion continues; repair of this roadway section is recommended at the conclusion of the current rainy season (see Photo 4). Repair of the south boundary road at the wash is not recommended as wash outs will continue to occur at this location.

6.3 Stormwater Controls

The existing stormwater controls are in good condition. Minor rill erosion is present along the western boundary of the landfill cap above Mesquite Ranch Wash drainage (see photo 5), but these rills are not deep and appear to be stable. This area will continue to be monitored during subsequent inspections and repairs will be scheduled if necessary. No repairs are recommended at this time.

6.4 Stormwater Retention Basins

The stormwater retention basin is functioning properly, however significant rill erosion was observed on the slopes of the basin (see photos 6 and 7). In some areas the subsurface irrigation piping has been exposed in the eroded areas. These areas should be scheduled for repair following the summer rainy season.

6.5 Landfill Earthen Cap

The earthen cap at Irvington landfill is in good condition with healthy vegetative cover (see photo 8).

6.6 Landfill Gas Extraction System Wellfield

None.

6.7 Landfill Gas Extraction System Compound

None.

6.8 Landfill Gas Monitoring Wells

All appear to be in good working condition.

6.9 Groundwater Monitoring Wells

All appear to be in good working condition.

6.10 Remediation Equipment

None.

6.11 Illegal Dumping

None.

6.12 Neighboring Land Uses

There have been no changes in land use of neighboring properties since the last inspection.

7 Recommended Corrective Action

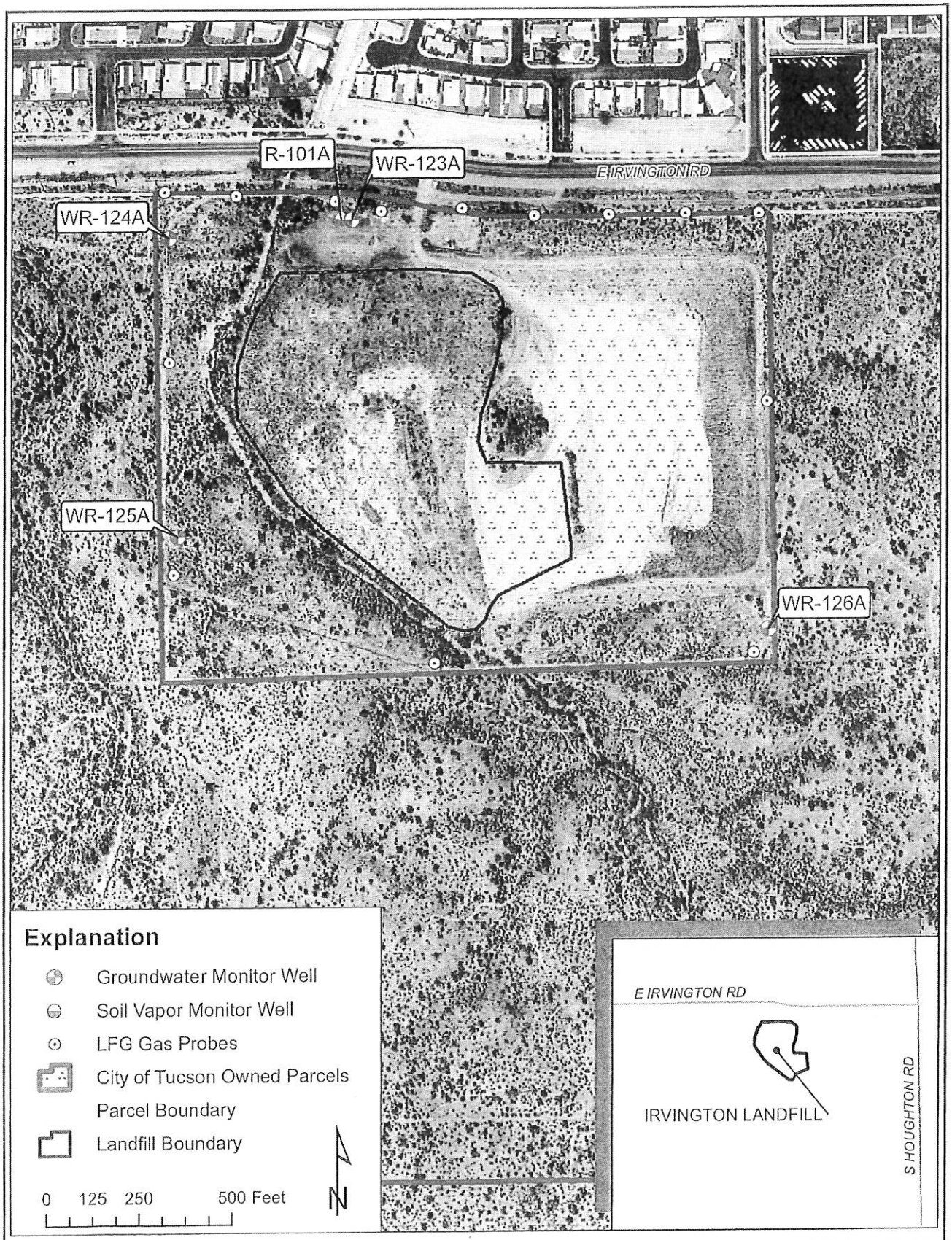
The following corrective actions are recommended over the coming year at Irvington Landfill:

- Rill erosion on the slope of the retention basin should be repaired following the rainy season.
- The erosion under the fence and fence posts along the eastern perimeter should be repaired following the rainy season.
- The eroded portion of the south perimeter road east of the wash should be repaired following the rainy season.
- The perimeter fence may require periodic maintenance at the wash crossings following major rainfall events.
- The landfill cap adjacent to Mesquite Ranch Wash must be monitored for future erosion.

FIGURE 1

SITE MAPS

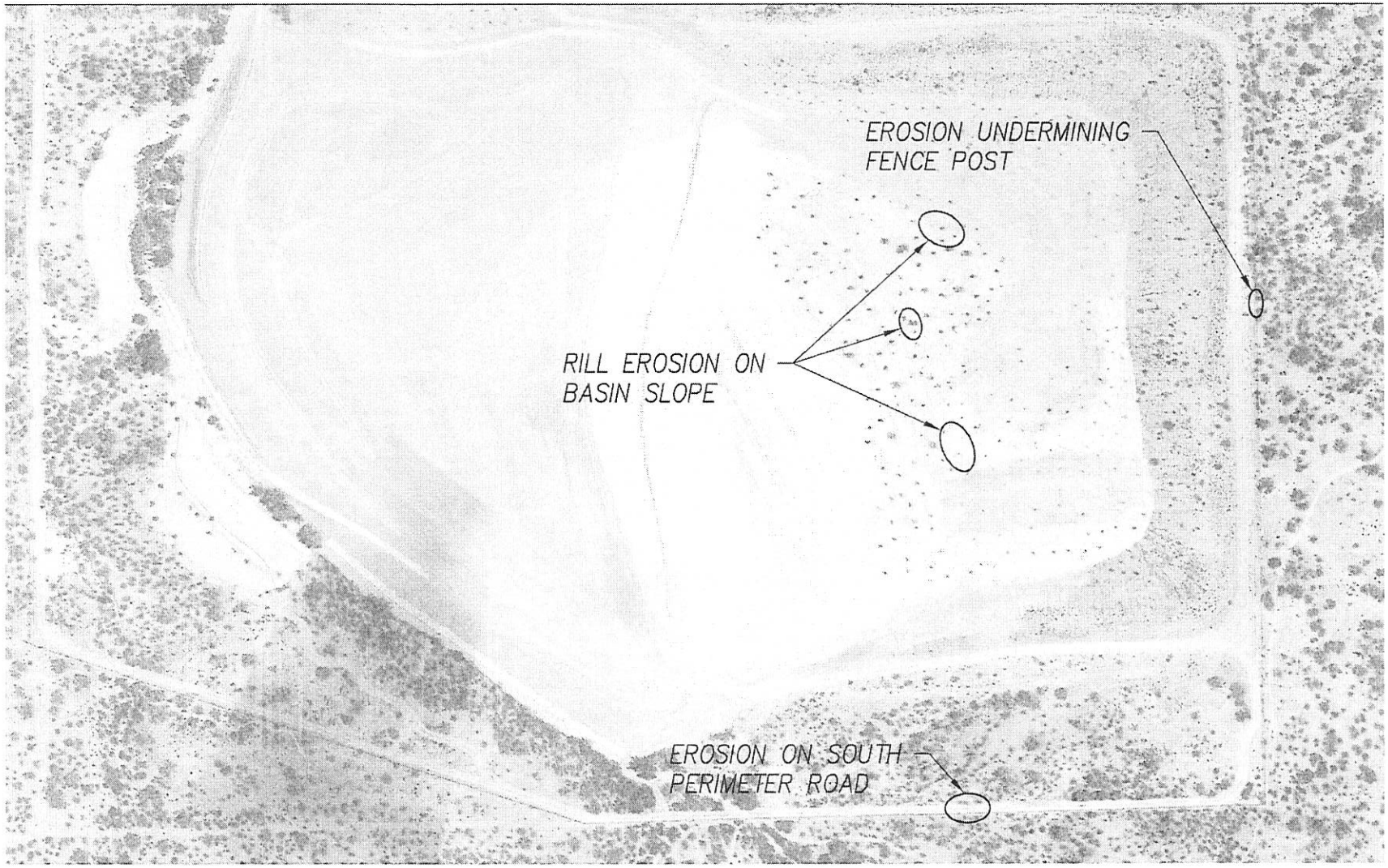
eec



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Irvington Landfill
Site Map

Drawn By:	LE
Checked:	JD
Approved:	NP
Date:	10/26/2010
File:	See Below



NTS

IRVINGTON LANDFILL

AUGUST 2015 QUARTERLY INSPECTION

TUCSON, ARIZONA

Engineering and Environmental Consultants, Inc.
4625 E. FT. LOWELL RD.
TUCSON, ARIZONA

DESIGNED BY	KP
DRAWN BY	BDB
CHECKED BY	KP
DATE	08/11/2015
SCALE	NTS

11032.40

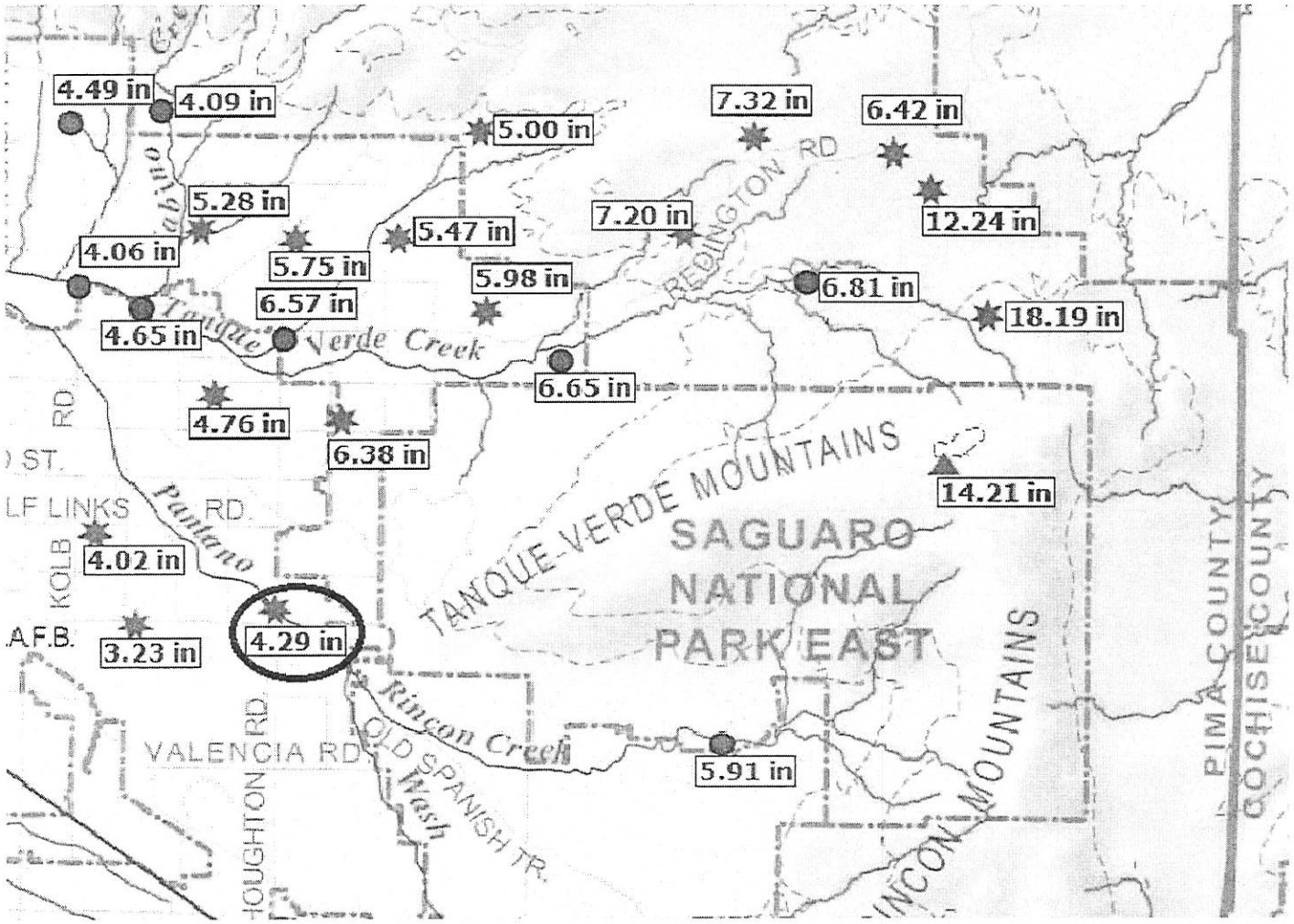
SHEET 1/1

N:\11032.40 – Closed Landfill Inspections\400 Reports & Report Preparation\11032.40exhbt-inspetion.dwg Plotted: Aug 11, 2015 – 3:34pm bbox

FIGURE 2

QUARTERLY PRECIPITATION DATA

eec


4.49 in
4.09 in
5.00 in
7.32 in
6.42 in
5.28 in
7.20 in
12.24 in
4.06 in
5.75 in
5.47 in
5.98 in
6.81 in
6.57 in
18.19 in
4.65 in
Tanque Verde Creek
6.65 in
4.76 in
6.38 in
14.21 in
Pantano
4.02 in
4.29 in
3.23 in
5.91 in
Rincon Creek
Old Wash
REDINGTON RD
TANQUE VERDE MOUNTAINS
SAGUARO NATIONAL PARK EAST
RINCON MOUNTAINS
PIMA COUNTY
COCHISE COUNTY
VALENCIA RD
HOUGHTON RD
OLD SPANISH TR
KOLB
LF LINKS RD
A.F.B.

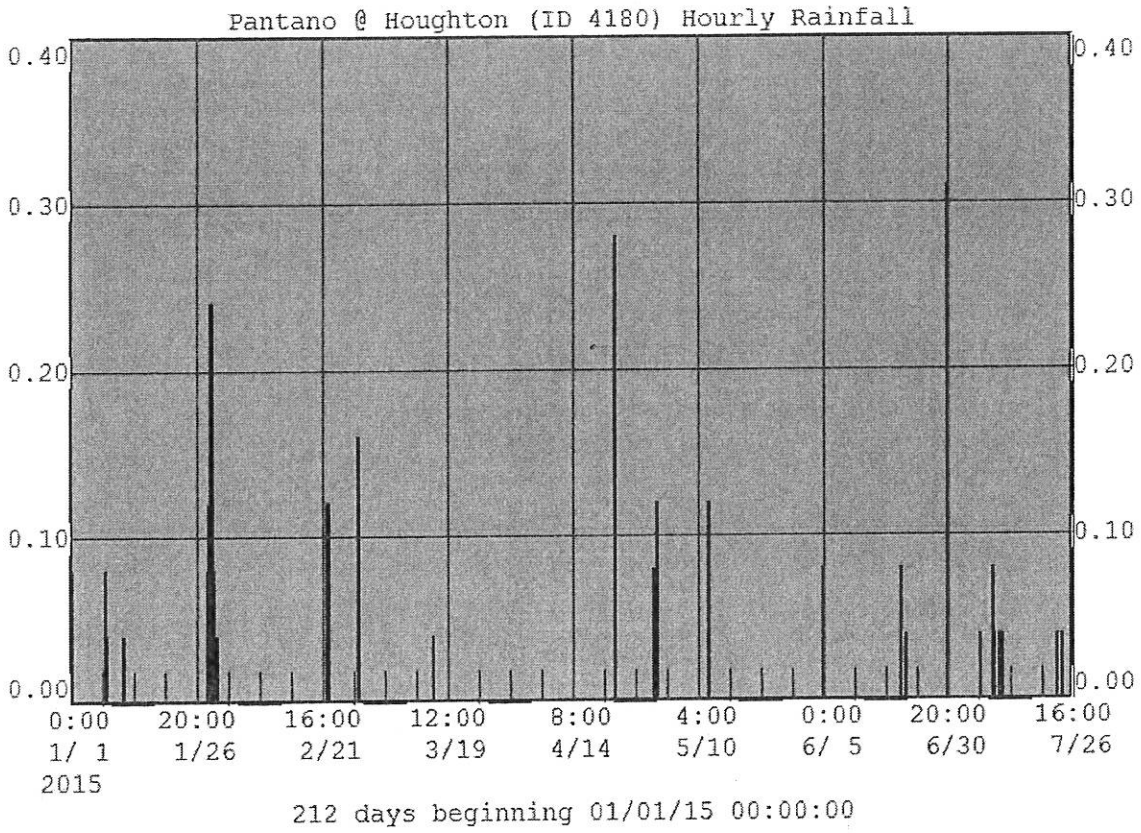

Pantano @ Houghton (ID 4180) Hourly Rainfall
0.40
0.30
0.20
0.10
0.00
0:00 1/ 1 2015
20:00 1/26
16:00 2/21
12:00 3/19
8:00 4/14
4:00 5/10
0:00 6/ 5
20:00 6/30
16:00 7/26
212 days beginning 01/01/15 00:00:00

FIGURE 3

QUARTERLY WEATHER EVENT SUMMARY TABLE

CITY OF TUCSON
CLOSED LANDFILL INSPECTION AND REPORTING
HARRISON, IRVINGTON, AND VINCENT MULLINS LA...

WEATHER EVENT OCCURENCE DATE(S)	WEATHER EVENT TYPE	WEATHER EVENT INSPECTION DATE	APPLICABLE SITES
None this period			

FIGURE 4

SITE INSPECTION TABLE

CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	1)Erosion of fence posts, east fence line 2) Monitor breakaway sections of fence at wash	1) Fill and compact 2) Repair following high flow events
Inspection Roads (washouts, obstructions, potholes)	Erosion of south perimeter road east of wash -	Fill and compact
Storm Water Controls (berms, let downs, spillways)	None	None
Storm Water Retention Basins (washouts, excessive silt in, holding water)	Erosion rills on basin slope	Fill and compact
Landfill Earthen Cap (washouts, trash showing, debris and trash)	None	None
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	NA
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	NA
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	None	None
Groundwater Monitoring Wells (including bollards, vaults, locks)	None	None
Remediation Equipment (compound fence, erosions, leaks)	NA	NA
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	None	None
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	None	None
INSPECTOR SIGNATURE		DATE

FIGURE 5

QUARTERLY INSPECTION PHOTO-LOG

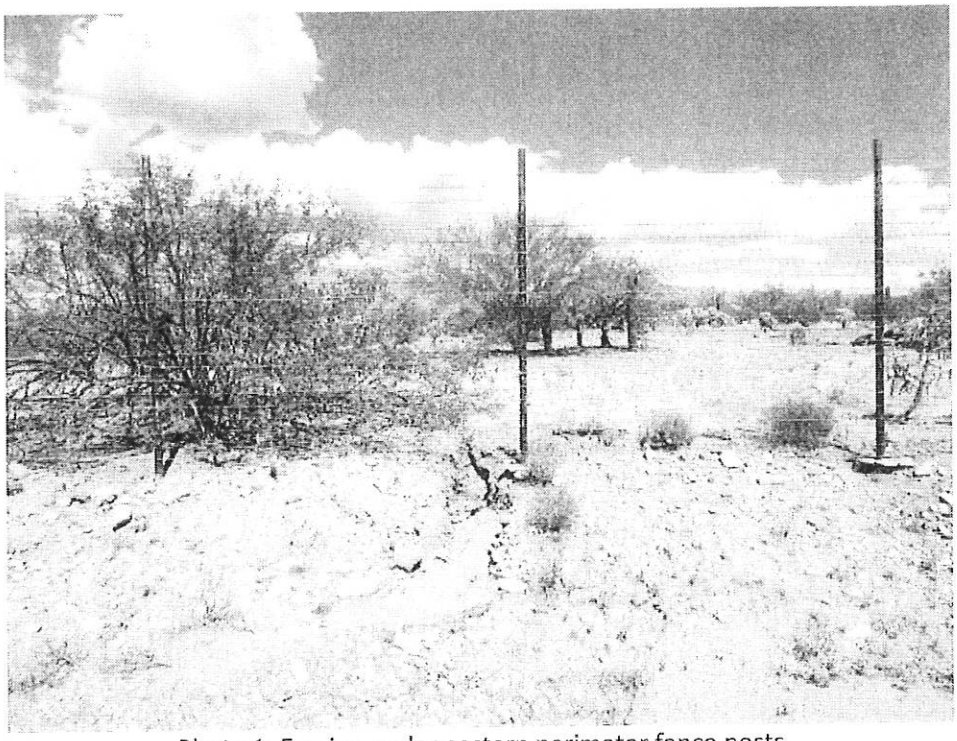


Photo 1: Erosion under eastern perimeter fence posts

Photo 2: Northern Perimeter Fence at Mesquite Ranch Wash – "breakaway" section requires repair after major storm/flow events

eec

Photo 3: Southern Perimeter Fence at Mesquite Ranch Wash – "breakaway" section requires repair after major storm/flow events

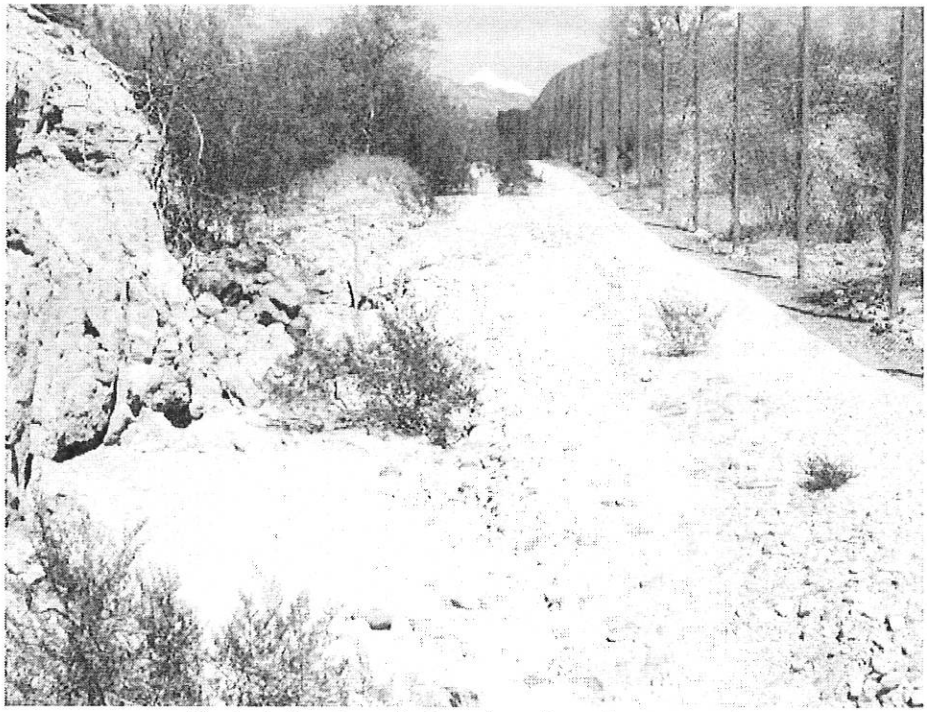


Photo 4: Erosion of edge of south perimeter road

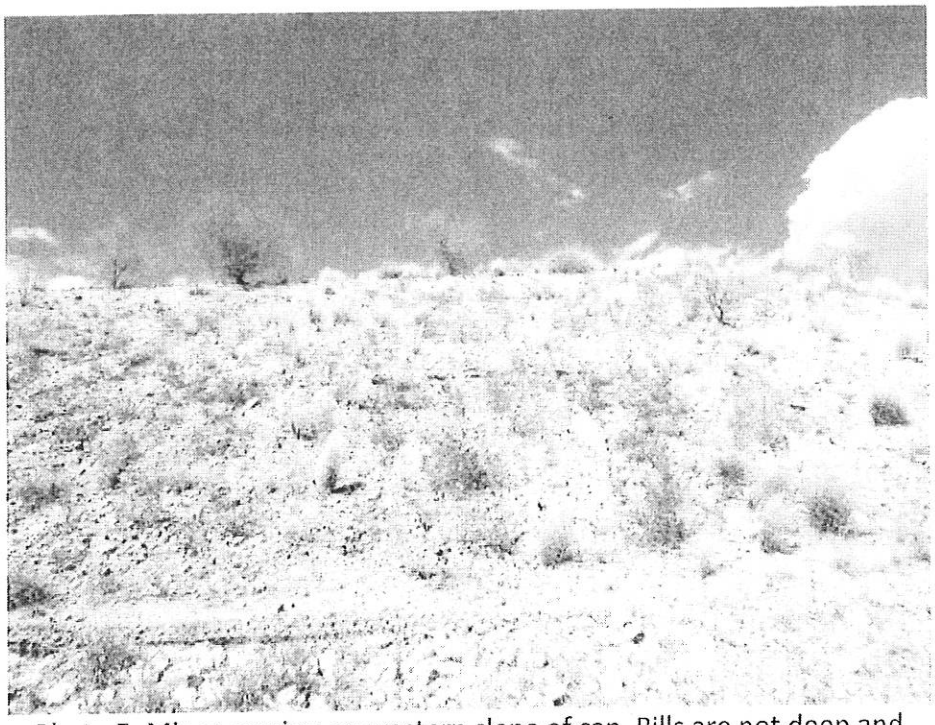


Photo 5: Minor erosion on western slope of cap. Rills are not deep and appear stable. This area will be monitored going forward.

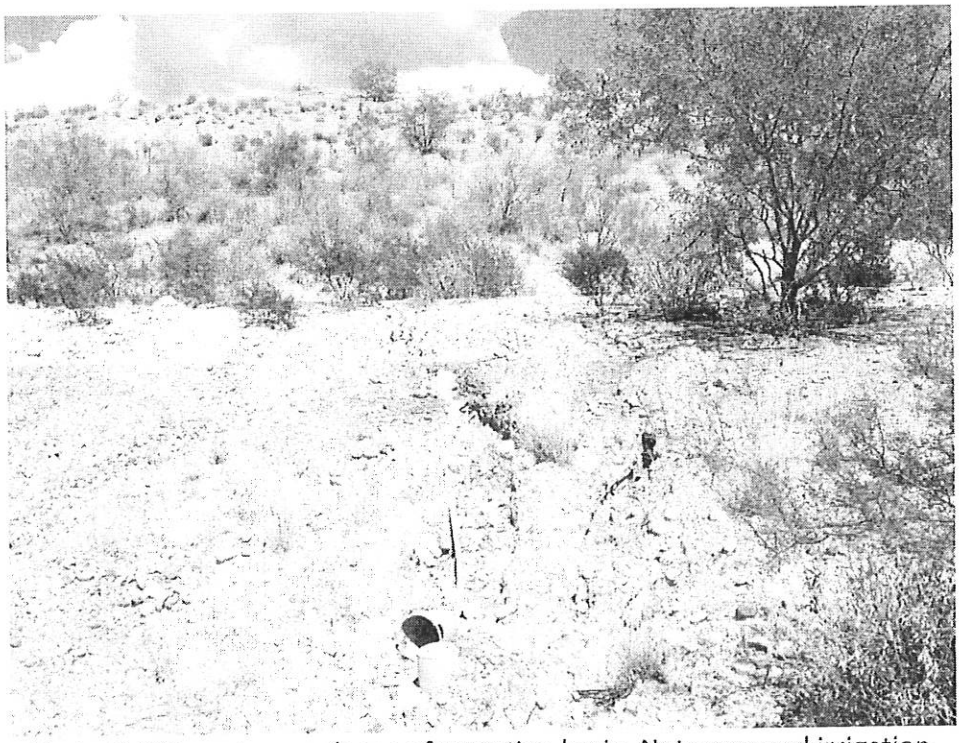


Photo 6: Rill erosion on slopes of retention basin. Note exposed irrigation.

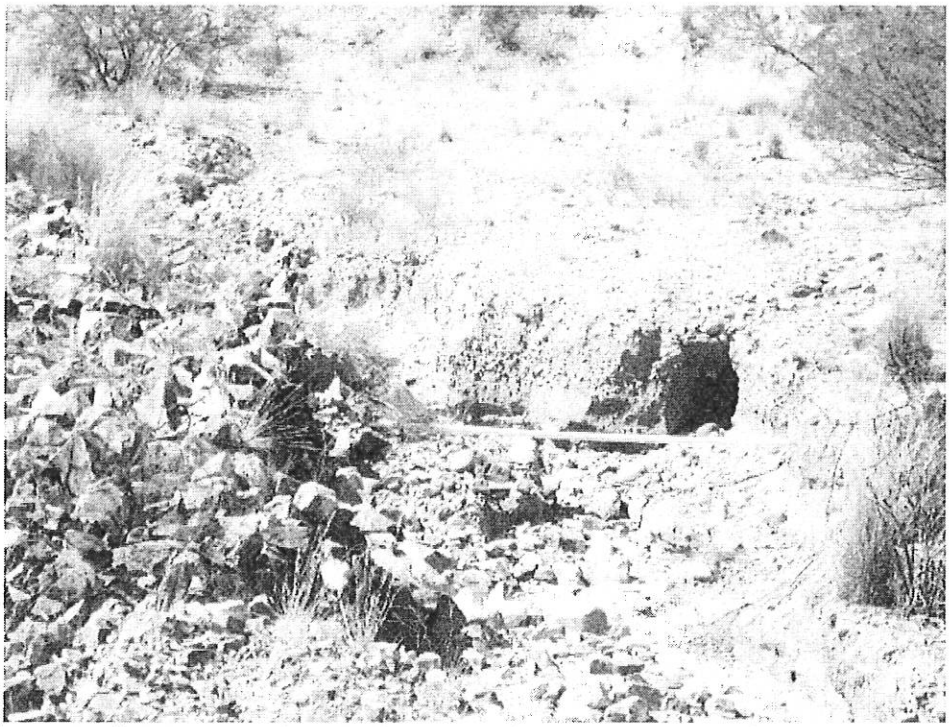


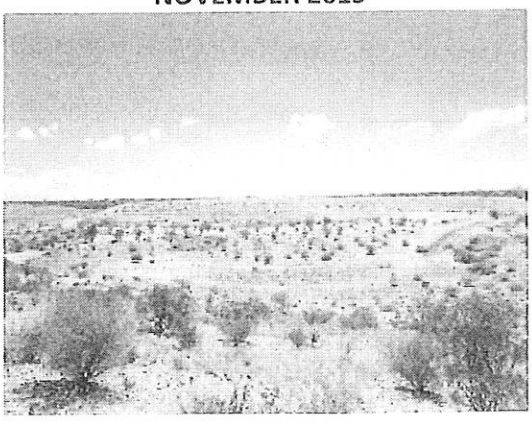
Photo 7: Rill erosion on slopes of retention basin. Note exposed irrigation piping.

Photo 8: Landfill central cap. Cap is in good condition.

2015 QUARTERLY CLOSED LANDFILL INSPECTION REPORT

IRVINGTON LANDFILL

NOVEMBER 2015



PREPARED FOR:

CITY OF TUCSON
PO BOX 27210
TUCSON, ARIZONA 85726-7210

Registered Professional Engineer (Civil)
CERTIFICATE NO. 10011
EDWIN BRUCE WILSON
Date Signed 12-12-2015
ARIZONA, U.S.A.

EXPIRES 12/31/2016

PREPARED BY:

ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.
4625 E. FT. LOWELL RD.
TUCSON, ARIZONA 85712
www.eec-info.com

EEC PROJECT NO. 11032.40
INSPECTION DATE: NOVEMBER 22, 2015
REPORT DATE: DECEMBER 9, 2015

CONTENTS

SECTION — PAGE

1 INTRODUCTION 1

2 SITE MAPS 1

3 PRECIPITATION TOTALS 1

4 WEATHER EVENT INSPECTIONS 1

5 INSPECTION SUMMARY 2

- 5.1 Perimeter Security Fence and Gates 2
- 5.2 Inspection Roads 2
- 5.3 Stormwater Controls 2
- 5.4 Stormwater Retention Basins 3
- 5.5 Landfill Earthen Cap 3
- 5.6 Landfill Gas Extraction System Wellfield 3
- 5.7 Landfill Gas Extraction System Compound 3
- 5.8 Landfill Gas Monitoring Wells 3
- 5.9 Groundwater Monitoring Wells 3
- 5.10 Remediation Equipment 3
- 5.11 Illegal Dumping 3
- 5.12 Neighboring Land Uses 3

6 RECOMMENDED CORRECTIVE ACTION 3

ATTACHMENTS

- Appendix 1 Site Maps
- Appendix 2 Quarterly Precipitation and Wind Event Data
- Appendix 3 Quarterly Weather Event Summary Table
- Appendix 4 Site Inspection Table
- Appendix 5 Quarterly Inspection Photo-log

Registered Professional Engineer (Civil)
CERTIFICATE NO. 10011
EDWIN BRUCE WILSON
Date Signed 12-12-2015
ARIZONA, U.S.A.
EXPIRES 12/31/2016

1 Introduction

This report documents the results of a quarterly field inspection performed on November 22, 2015 at the closed Irvington Municipal Landfill. Quarterly inspections are a requirement at the Irvington Landfill as outlined in the Aquifer Protection Permit (APP) issued in August 2010. Facility post closure inspection requirements span a 30 year period beginning in 2010 and concluding in 2040.

Field inspections are performed on a quarterly basis and follow the procedures outlined in "City of Tucson Closed Landfill Inspection and Maintenance Reporting and Procedures March 2011". This guidance document was internally prepared by the City of Tucson Environmental Services Department (COT-ES). Key elements of the inspection report are:

- Inspection Table to record facility conditions
- Site Map showing areas requiring corrective action
- Facility precipitation data since the previous inspection
- Tally of weather event triggered inspections
- Narrative summary of facility conditions including recommended corrective action(s) to be undertaken prior to the next scheduled inspection
- Inspection photo log

2 Site Maps

A general site map of Irvington Landfill and an annotated aerial photograph of the site showing the areas of concern noted during this quarter's field inspections is Appendix 1.

3 Precipitation Totals

Precipitation totals for Irvington Landfill are estimated using data from the Pima County Regional Flood Control District (PCRFCD), which maintains a network of rain gauges and gauge data throughout the county. The PCRFCD gauge closest to Irvington Landfill is #4180, located at Houghton Road and the Pantano Wash, approximately 1/2 mile from the landfill. Since the last inspection report, gauge #4180 registered 5.63 inches of rain (Appendix 2).

4 Weather Event Inspections

In addition to the required quarterly inspections, additional facility inspections are required for the Irvington Landfill in response to classified rainfall and wind events. A classified rainfall event triggering a site inspection is 0.5 inches or more of rainfall depth in a 24 hour period. A classified wind event triggering a site inspection is sustained wind speed greater than 25 miles per hour for 60 or more minutes. Five weather events (three rain, two wind) necessitated inspections during this quarter. A table of weather event occurrences since the previous quarterly inspection report is included with this report (Appendix 3).

5 Inspection Summary

Quarterly field inspections of the Irvington Landfill are organized and conducted using the inspection report table included in the COT-ES inspection guidance document. A summary copy of the table filled out during the inspections performed this quarter is included in this report (Appendix 4). The table lists specific landfill items that must be inspected and provides space to comment on the conditions encountered during the inspection. The items inspected and the current conditions of these features at the Irvington Landfill are summarized as follows:

5.1 Perimeter Security Fence and Gates

The perimeter security fence and gates at Irvington Landfill are generally in satisfactory condition and the perimeter of the landfill property is secure. One area of erosion was observed beneath the eastern perimeter fence (Photo 1). Repair of this erosion is recommended to prevent collapse of the fence posts. The section of fencing spanning the Mesquite Ranch Wash along the northern and southern boundary of the property sometimes requires repair following major storm events (Photos 2 and 3). Continued monitoring of these sections is required.

5.2 Inspection Roads

The majority of the maintenance access roads throughout the property are generally in good condition. The southern boundary road at the Mesquite Ranch Wash is washed out due to storm events, but full access to the property is possible using other perimeter gates and roads. Repair of the south boundary road at the wash is not recommended as wash outs will continue to occur at this location.

A portion of the south boundary road approaching the wash shows erosion and was recommended for repair in the last quarterly report (Photo 4); the area is actually somewhat improved since the last inspection due to sloughing and deposition of material onto the roadway but should still be repaired when equipment is brought in to repair other erosion on the landfill.

A portion of the west boundary road shows substantial erosion due to rainfall runoff. Landfill irrigation piping is exposed in the area and continued rainfall erosion may make this roadway impassable (Photos 5, 6, 7). Repair of the erosion in this area is recommended.

5.3 Stormwater Controls

The existing stormwater controls are in good condition. Minor erosion is present along the western boundary of the landfill cap above Mesquite Ranch Wash drainage but the rills are not deep and slope is in generally good condition overall (Photos 8, 9). This area will continue to be monitored during subsequent inspections and repairs will be recommended if necessary. No repairs are recommended at this time.

5.4 Stormwater Retention Basins

The stormwater retention basin is functioning properly, however significant rill erosion continues to be observed on the slopes of the basin (Photos 10, 11). In some areas the subsurface irrigation piping has been exposed in the eroded areas. In the past, these areas of recurring erosion were repaired following the summer rainy season. The basin does not overlay trash and the irrigation system is no longer in use so repair of these areas is at the discretion of COT-ES.

5.5 Landfill Earthen Cap

The earthen cap at Irvington landfill is in good condition with healthy vegetative cover (Photos 12, 13, 14).

5.6 Landfill Gas Extraction System Wellfield

None.

5.7 Landfill Gas Extraction System Compound

None.

5.8 Landfill Gas Monitoring Wells

All appear to be in good working condition.

5.9 Groundwater Monitoring Wells

All appear to be in good working condition.

5.10 Remediation Equipment

None.

5.11 Illegal Dumping

None.

5.12 Neighboring Land Uses

There have been no changes in land use of neighboring properties since the last inspection.

6 Recommended Corrective Action

The following corrective actions should be considered over the coming year at Irvington Landfill:

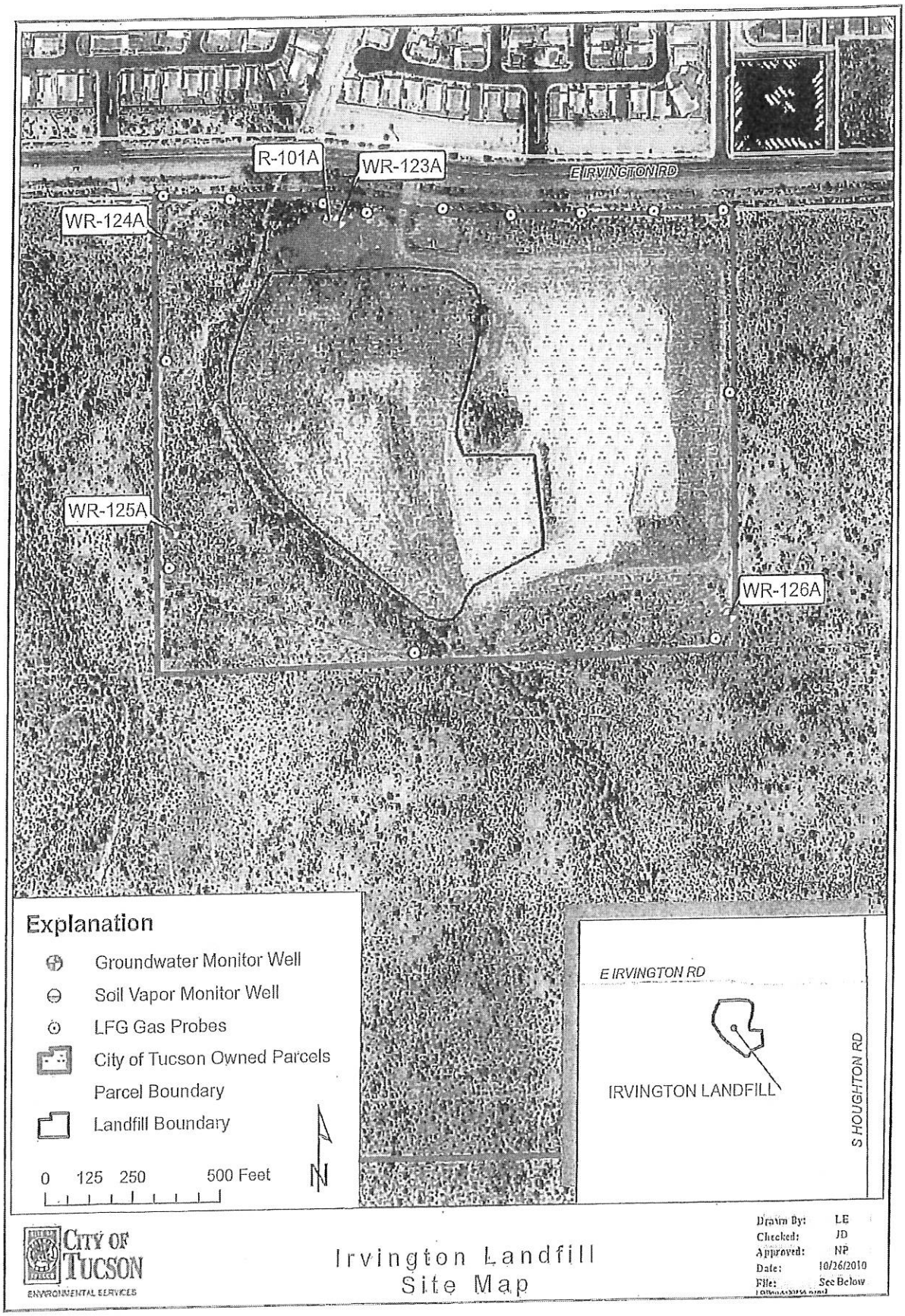
- Rill erosion and exposure of inactive irrigation system piping on the slope of the retention basin was again observed. Repair of these areas is considered to be at the discretion of COT-ES.
- The erosion under the fence and fence posts along the eastern perimeter should be repaired.
- The eroded portion of the west perimeter road east of the wash should be repaired. This road may become impassable with future rains. While equipment is on site to make this

repair, the south boundary road approaching Mesquite Ranch Wash can also be repaired.

- The perimeter fence may require periodic maintenance at the wash crossings following major rainfall events.
- The landfill cap adjacent to Mesquite Ranch Wash must be monitored for future erosion.

APPENDIX 1

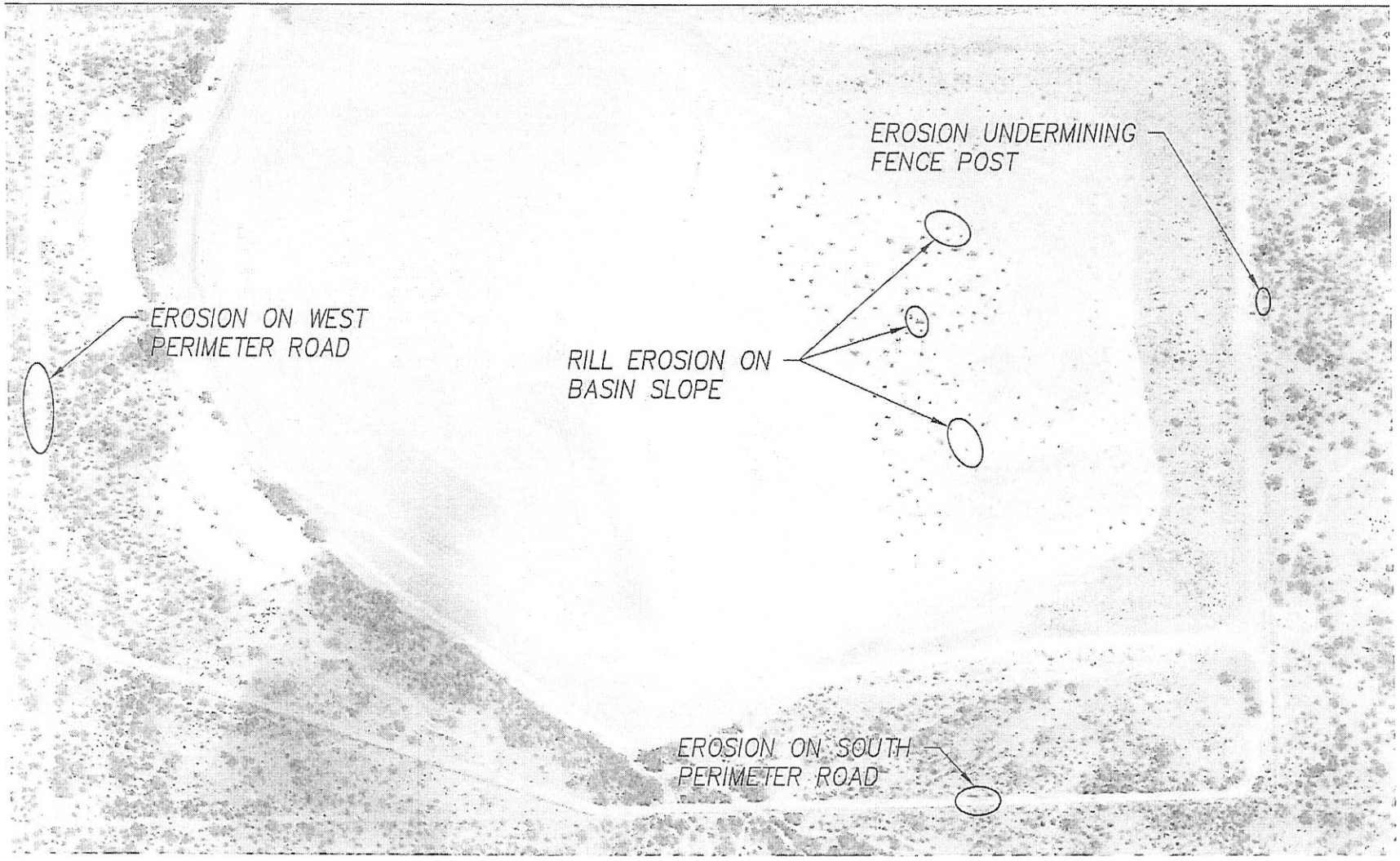
SITE MAPS



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Irvington Landfill
Site Map

Drawn By: LE
Checked: JD
Approved: NP
Date: 10/26/2010
File: See Below



NTS

IRVINGTON LANDFILL
AUGUST 2015 QUARTERLY INSPECTION
TUCSON, ARIZONA

Engineering and Environmental Consultants, Inc.
4625 E. FT. LOWELL RD.
TUCSON, ARIZONA

DESIGNED BY	KP
DRAWN BY	BDB
CHECKED BY	KP
DATE	11/22/2015
SCALE	NTS

11032.40

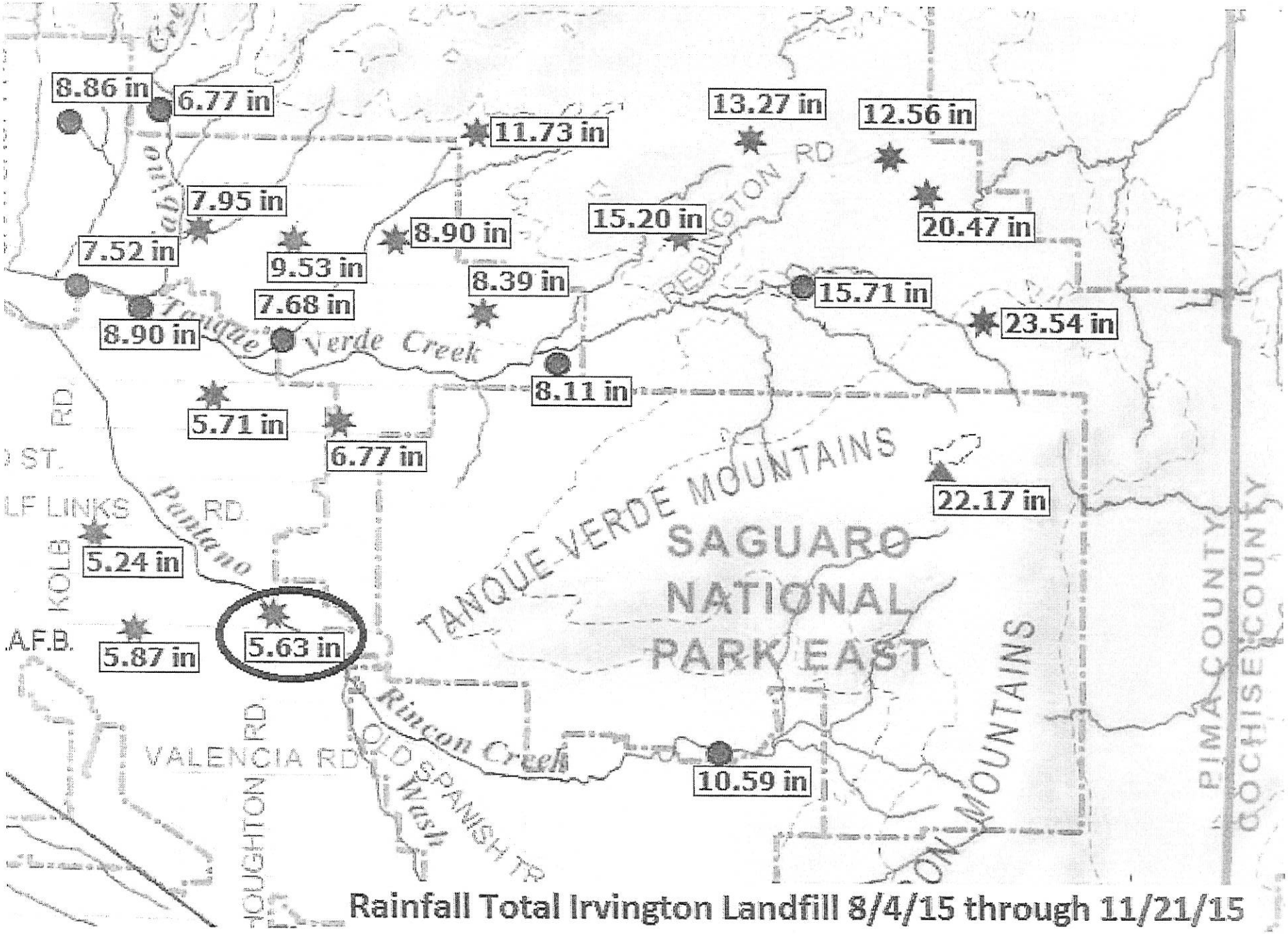
SHEET 1/1

N:\11032.40 – Closed Landfill Inspections\400 Reports & Report Preparation\11032.40exhbt-inspetion-R1.dwg Plotted: Dec 09, 2015 – 11:09am bbox

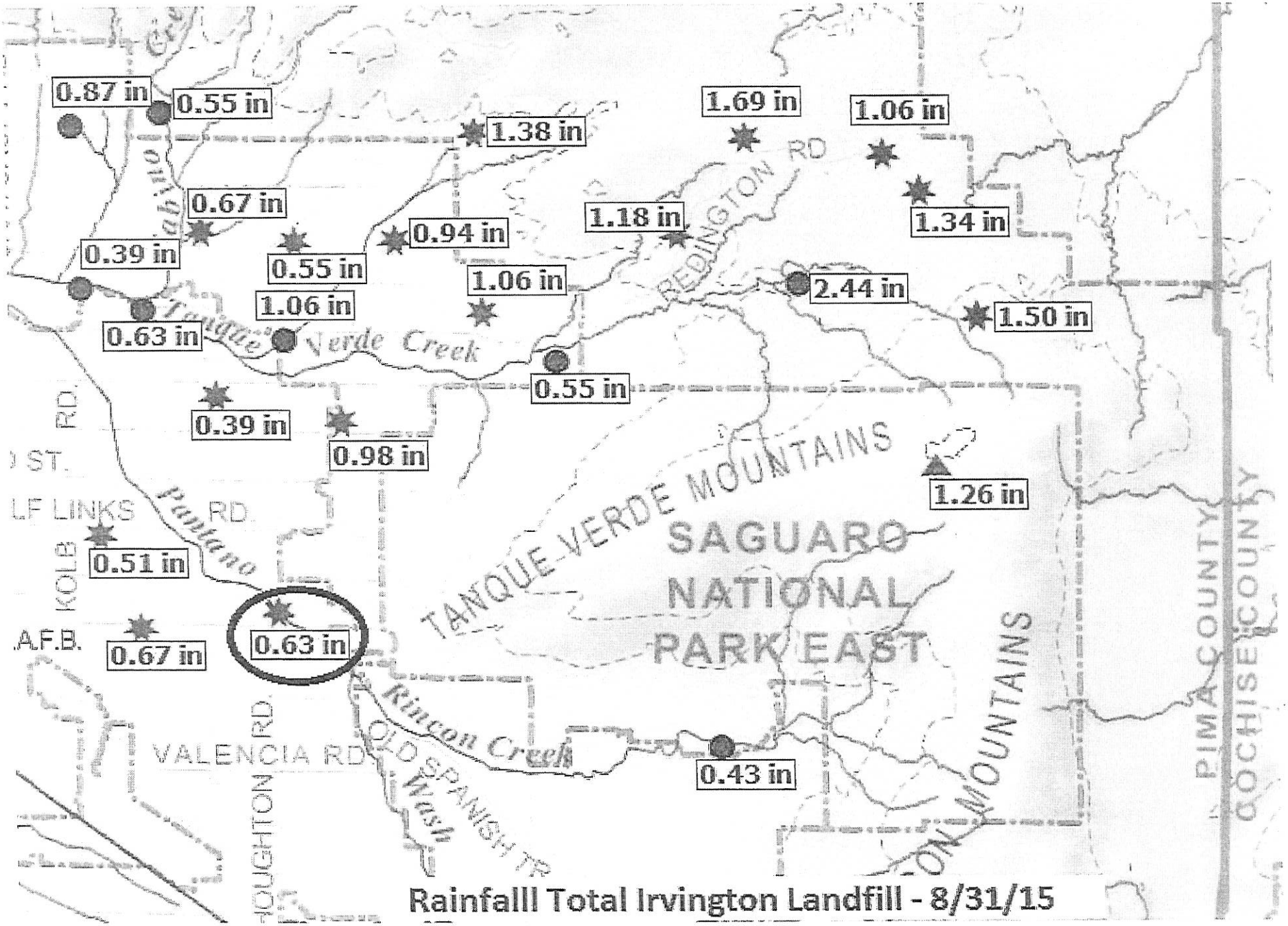
APPENDIX 2

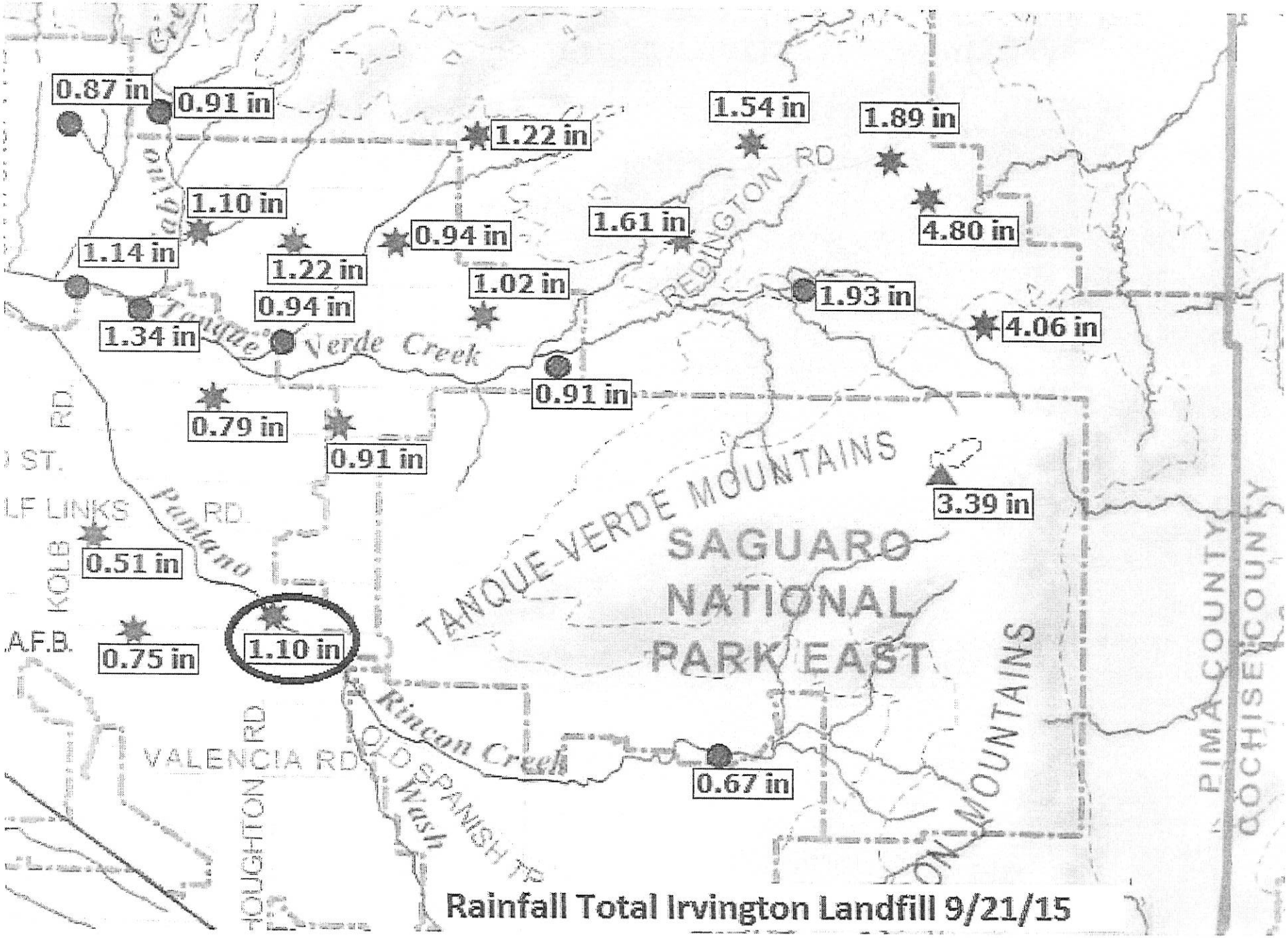
QUARTERLY PRECIPITATION AND WIND EVENT DATA

eec

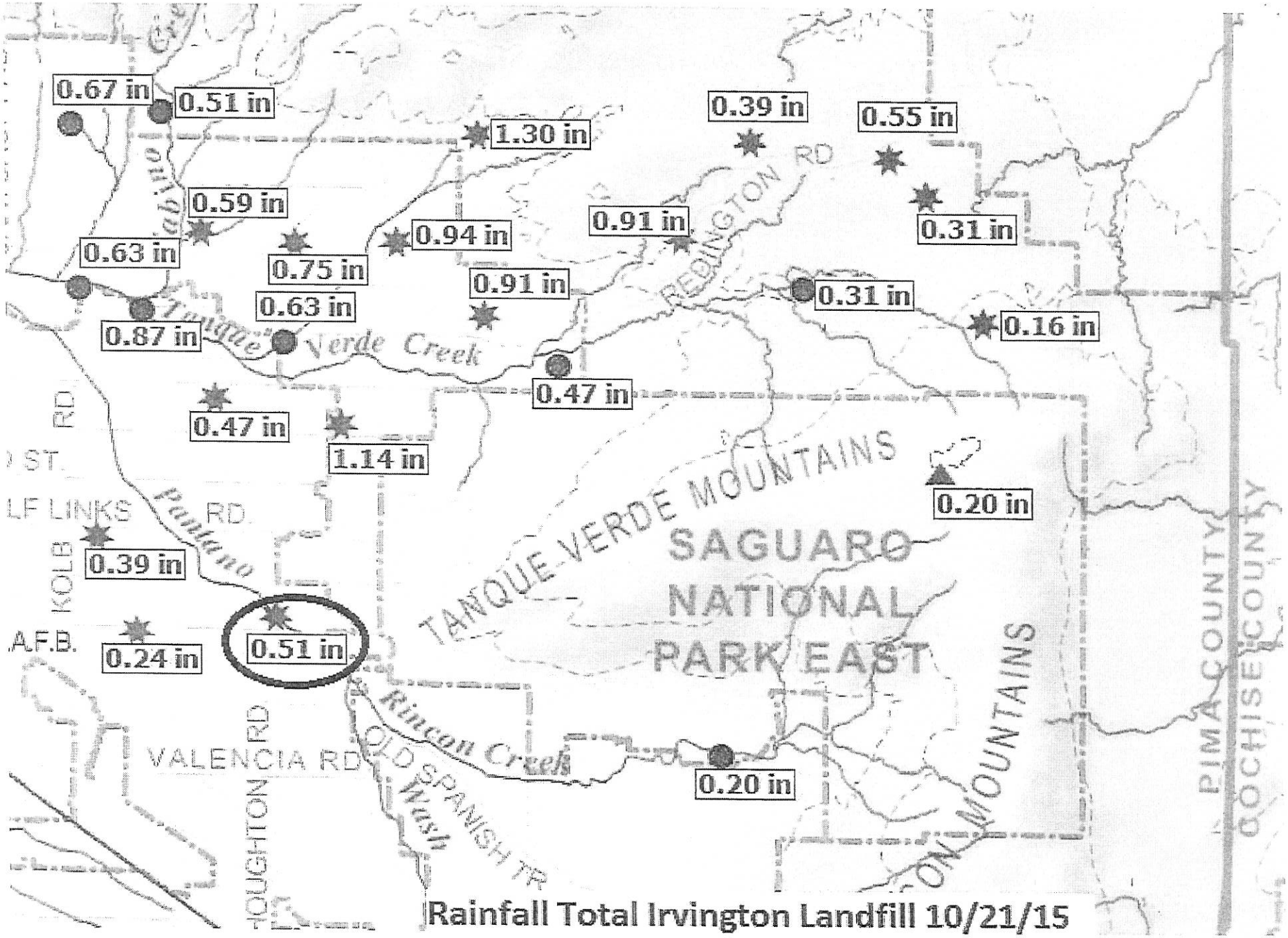


Rainfall Total Irvington Landfill 8/4/15 through 11/21/15


0.87 in
0.55 in
1.38 in
1.69 in
1.06 in
0.67 in
0.94 in
1.18 in
1.34 in
0.39 in
0.55 in
1.06 in
2.44 in
1.06 in
1.50 in
0.63 in
Tanque Verde Creek
0.55 in
0.39 in
0.98 in
1.26 in
TANQUE VERDE MOUNTAINS
SAGUARO NATIONAL PARK EAST
0.51 in
0.67 in
0.63 in
Rincon Creek
0.43 in
VALENCIA RD
OLD SPANISH TR
Wash
REDINGTON RD
PIMA COUNTY
COCHISE COUNTY
Rainfalll Total Irvington Landfill - 8/31/15



Rainfall Total Irvington Landfill 9/21/15



Rainfall Total Irvington Landfill 10/21/15

WIND EVENT DOCUMENTATION

eec

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Get Local Forecast for: Enter location Sele Search Help

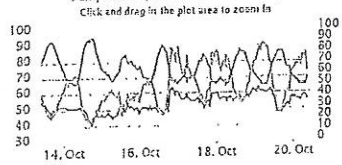
Share

Home Current Hazards Current Conditions Forecasts Hydrology Climate Weather Safety Additional Info Contact Us

Show 2 Days Printable Version Show Raw Observations Information Regarding the Accuracy of This Data: MesoWest Disclaimer/FAQ

Temperature, Dew Point & Humidity

Click and drag in the plot area to zoom in

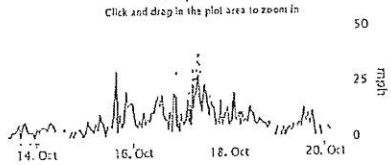


(Click to hide)

— Temperature — Dewpoint — Rel Humidity

Wind Speed & Gust

Click and drag in the plot area to zoom in

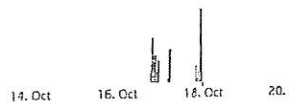


(Click to hide)

— Speed · · Gust

1 Hour Precipitation

168-hour total: 0.55



(Click to hide)

1 Hour Precip

Weather Conditions for:
Tucson, Tucson International Airport, AZ. KTUS (NWS/FAA)
Elev: 2546 ft; Latitude: 32.13153; Longitude: -110.95635

Current time: Tue, 20 Oct 8:53 am MST
Most Recent Observation: Tue, 20 Oct 7:53 am MST
Explanation of Wx and Clouds columns.

Time (MST)	Temp. (f)	Dew Point (f)	Relative Humidity (%)	Wind Direction	Wind Speed (mph)	Visibility (miles)	WX	Clouds	Sea Level Pressure (mb)	Altimeter Setting (inches)	Station Pressure (inches)	Precip 1 hour (inches)	Precip 3 hour (inches)	Precip 6 hour (inches)	Precip 24 hour (inches)	6 Hr Max Temp	6 Hr Min Temp	24 Hr Max Temp	24 Hr Min Temp	Quality Control
20 Oct 7:53 am MST	69	56	63	CALM		10.00		CLR	1009.0	29.91	27.267									OK
20 Oct 6:53 am MST	65	58	78	CALM		10.00		SCT055 BKN070	1008.7	29.90	27.257									OK
20 Oct 5:53 am MST	66	58	75	CALM		10.00		BKN070	1008.2	29.89	27.248									OK
20 Oct 4:53 am MST	65	57	76	CALM		10.00		CLR	1007.9	29.88	27.239					70	63			OK
20 Oct 3:53 am MST	65	55	68	CALM		10.00		CLR	1007.6	29.89	27.239									OK
20 Oct 2:53 am MST	65	56	73	CALM		10.00		CLR	1008.1	29.89	27.248									OK
20 Oct 1:53 am MST	67	55	68	SSW	5	10.00		CLR	1008.2	29.90	27.257									OK
20 Oct 12:53 am MST	68	57	68	ESE	6	10.00		FEW070	1008.2	29.90	27.257									OK
19 Oct 11:53 pm MST	69	57	65	CALM		10.00		CLR	1008.5	29.91	27.267							86	64	OK
19 Oct 10:53 pm MST	70	57	64	CALM		10.00		CLR	1009.1	29.92	27.276					83	70			OK
19 Oct 9:53 pm MST	71	56	59	S	3	10.00		CLR	1009.1	29.92	27.276									OK
19 Oct 8:53 pm MST	76	52	43	SSE	6	10.00		CLR	1008.7	29.91	27.267									OK
19 Oct 7:53 pm MST	76	53	45	CALM		10.00		CLR	1008.8	29.91	27.267									OK
19 Oct 6:53 pm MST	76	52	43	WSW	3	10.00		CLR	1008.7	29.90	27.257									OK
19 Oct 5:53 pm MST	80	50	35	WSW	8	10.00		CLR	1008.0	29.89	27.248									OK
19 Oct 4:53 pm MST	84	50	31	SW	13	10.00		FEW080	1007.6	29.88	27.239					86	80			OK
19 Oct 3:53 pm MST	86	48	27	SW	8	10.00		SCT080	1007.7	29.89	27.248									OK
19 Oct 2:53 pm MST	86	48	27	SW	12	10.00		CLR	1008.1	29.90	27.257									OK
19 Oct 1:53 pm MST	86	48	27	SW	9G17	10.00		CLR	1008.8	29.92	27.276									OK
19 Oct 12:53 pm MST	84	52	33	SW	14	10.00		CLR	1009.8	29.95	27.304									OK
19 Oct 11:53 am MST	82	58	41	S	7	10.00		BKN050	1011.1	29.99	27.341					80	64			OK
19 Oct 10:53 am MST	80	58	47	SSE	6G16	10.00		FEW047	1011.9	30.01	27.359									OK
19 Oct 9:53 am MST	77	61	57	VRBL	7	10.00		CLR	1012.3	30.02	27.369									OK
19 Oct 8:53 am MST	73	62	69	CALM		10.00		CLR	1012.5	30.02	27.369									OK
19 Oct 7:53 am MST	69	61	75	SE	7	10.00		CLR	1012.6	30.02	27.369									OK
19 Oct 6:53 am MST	65	60	84	SSE	5	10.00		CLR	1012.1	30.00	27.350									OK
19 Oct 5:53 am MST	65	60	84	SE	6	10.00		CLR	1011.8	30.00	27.350									OK
19 Oct 4:53 am MST	65	61	87	SSE	5	10.00		CLR	1011.5	29.99	27.341					72	65			OK
19 Oct 3:53 am MST	65	61	87	S	3	10.00		CLR	1011.4	29.99	27.341									OK
19 Oct 2:53 am MST	67	61	81	SSE	6	10.00		CLR	1011.2	29.99	27.341									OK
19 Oct 1:53 am MST	68	63	83	SSE	3	10.00		CLR	1011.5	30.00	27.350									OK
19 Oct 12:53 am MST	69	62	78	CALM		10.00		CLR	1011.3	29.99	27.341									OK
18 Oct 11:53 pm MST	71	61	71	E	6	10.00		CLR	1011.4	29.99	27.341							87	65	OK
18 Oct 10:53 pm MST	72	62	71	SE	3	10.00		CLR	1011.8	30.00	27.350					85	72			OK
18 Oct 9:53 pm MST	75	61	62	CALM		10.00		CLR	1011.8	30.00	27.350									OK
18 Oct 8:53 pm MST	74	59	60	CALM		10.00		CLR	1011.8	30.00	27.350									OK
18 Oct 7:53 pm MST	77	57	51	SSW	8	10.00		CLR	1011.0	29.98	27.332									OK
18 Oct 6:53 pm MST	79	59	50	SSW	6	10.00		CLR	1010.6	29.96	27.313									OK
18 Oct 5:53 pm MST	82	57	43	SW	6	10.00		CLR	1010.1	29.95	27.304					87	80			OK
18 Oct 4:53 pm MST	85	57	39	SSW	8	10.00		CLR	1009.2	29.93	27.285									OK
18 Oct 3:53 pm MST	86	55	35	SSW	9	10.00		CLR	1009.5	29.94	27.295									OK
18 Oct 2:53 pm MST	86	57	38	SW	10	10.00		FEW100	1009.7	29.95	27.304									OK
18 Oct 1:53 pm MST	87	58	37	S	8	10.00		FEW055	1010.3	29.96	27.313									OK
18 Oct 12:53 pm MST	84	57	40	SSE	8	10.00		CLR	1011.4	29.99	27.341									OK
18 Oct 11:53 am MST	83	57	41	SE	12	10.00		CLR	1012.5	30.02	27.369					81	65			OK
18 Oct 10:53 am MST	80	56	44	SE	13	10.00		CLR	1013.4	30.04	27.387									OK
18 Oct 9:53 am MST	77	55	47	SE	15	10.00		CLR	1014.0	30.06	27.406									OK
18 Oct 8:53 am MST	73	57	57	SSE	9	10.00		CLR	1014.6	30.07	27.415									OK
18 Oct 7:53 am MST	70	57	64	SE	10	10.00		CLR	1014.4	30.03	27.406									OK
18 Oct 6:53 am MST	68	57	73	SSE	9	10.00		CLR	1013.6	30.04	27.387									OK
18 Oct 5:53 am MST	67	55	66	SE	13	10.00		CLR	1013.3	30.04	27.387									OK
18 Oct 5:26 am MST	65	57	76	ESE	8	10.00		CLR		30.03	27.378									OK
18 Oct 5:11 am MST	65	57	76	SE	10	10.00	VCTS	CLR		30.03	27.378									OK
18 Oct 4:53 am MST	68	57	68	SE	13	10.00		CLR	1012.6	30.02	27.369				0.25	69	55			OK
18 Oct 3:53 am MST	67	57	71	E	10	10.00		CLR	1012.3	30.01	27.359									OK
18 Oct 2:53 am MST	68	57	68	ESE	10	10.00		CLR	1012.4	30.02	27.369									OK
18 Oct 1:53 am MST	69	56	63	SE	21	10.00		SCT075 BKN095	1012.5	30.02	27.369									OK
18 Oct 12:53 am MST	68	57	68	ESE	9	10.00		CLR	1012.0	30.00	27.350									OK
17 Oct 11:53 pm MST	67	60	79	E	8	10.00		BKN085 BKN110	1012.9	30.03	27.378							85	65	OK
17 Oct 10:53 pm MST	66	60	81	E	15G29	10.00		BKN110	1014.1	30.05	27.397	0.07		0.25		82	65			OK
17 Oct 9:53 pm MST	67	59	76	E	13	6.00	+RA	SCT075 OVC095	1015.0	30.08	27.424	0.13								OK
17 Oct 8:53 pm MST	67	60	79	SSE	10	9.00	VCTS RA	SCT075 OVC090	1015.2	30.08	27.424	0.02								OK

17 Oct 8:31 pm MST	68	57	69	SSW	8	10.00	-TSRA	FEW075 OVC095		30.06	27.406	T									OK
17 Oct 8:02 pm MST	67	59	76	W	13	10.00	VCTS -RA	OVC085		30.04	27.387	T									OK
17 Oct 7:53 pm MST	66	59	78	W	13	6.00	TSRA	SCT075 BKN090 OVC110	1013.5	30.03	27.378	0.03	0.03								OK
17 Oct 7:19 pm MST	76	52	43	WSW	18G36	10.00	TS	BKN080 BKN110		30.02	27.369										OK
17 Oct 6:53 pm MST	77	55	47	E	8	10.00	VCTS	CLR	1010.9	29.97	27.322										OK
17 Oct 5:53 pm MST	78	55	45	ENE	10	10.00		CLR	1010.2	29.95	27.304										OK
17 Oct 4:53 pm MST	82	53	37	E	8	10.00		CLR	1010.1	29.95	27.304					65	74				OK
17 Oct 3:53 pm MST	83	51	33	E	15	10.00		CLR	1010.1	29.96	27.313										OK
17 Oct 3:03 pm MST	84	54	36	E	16	10.00		BKN110		29.97	27.322										OK
17 Oct 2:53 pm MST	84	54	36	E	15G24	10.00	VCTS	BKN110	1010.7	29.98	27.332										OK
17 Oct 2:38 pm MST	83	56	40	ESE	17	10.00	VCTS	FEW100		29.98	27.332										OK
17 Oct 1:53 pm MST	80	55	42	ESE	14G20	10.00		CLR	1011.5	29.99	27.341										OK
17 Oct 1:39 pm MST	80	55	42	ESE	15G20	10.00	TS	SCT085		30.00	27.350										OK
17 Oct 1:26 pm MST	80	55	42	ESE	12	10.00		BKN085		30.00	27.350										OK
17 Oct 1:11 pm MST	80	54	41	ESE	15	10.00	VCTS	BKN085		30.01	27.359										OK
17 Oct 12:53 pm MST	80	56	44	ESE	15	10.00		FEW085	1012.3	30.01	27.359										OK
17 Oct 11:53 am MST	78	57	48	ESE	21	10.00		CLR	1013.3	30.04	27.387										OK
17 Oct 10:53 am MST	75	56	52	SE	25G32	10.00		CLR	1014.2	30.06	27.406			T		76	67				OK
17 Oct 9:53 am MST	72	55	55	SE	14	10.00		OVC100	1015.0	30.08	27.424										OK
17 Oct 8:53 am MST	70	55	59	SE	20G31	10.00		BKN100	1015.1	30.09	27.424										OK
17 Oct 7:53 am MST	71	55	57	SE	29G39	10.00		CLR	1014.5	30.06	27.406		T								OK
17 Oct 6:53 am MST	69	56	63	ESE	22G30	10.00		FEW090 SCT110	1013.7	30.04	27.387										OK
17 Oct 5:53 am MST	69	57	65	SE	20G24	10.00		BKN085 BKN120	1013.6	30.04	27.387	T									OK
17 Oct 5:36 am MST	69	57	65	E	15G25	10.00		FEW090 SCT110		30.03	27.378	T									OK
17 Oct 5:14 am MST	69	57	65	ESE	25G32	10.00	VCTS	FEW030 BKN090 OVC110		30.03	27.378	T									OK
17 Oct 4:53 am MST	57	59	76	SE	18	9.00	-TSRA	FEW020 BKN095 OVC110	1013.0	30.03	27.378	0.06		0.06	0.30	71	67				OK
17 Oct 4:32 am MST	68	59	73	E	8	10.00	-TSRA	SCT055 SCT075 OVC100		30.04	27.387	0.01									OK
17 Oct 4:24 am MST	69	58	68	E	9	10.00	VCTS -RA	FEW055 SCT075 OVC100		30.04	27.387	0.01									OK
17 Oct 4:11 am MST	69	58	68	E	12	10.00	-TSRA	FEW042 SCT080 OVC100		30.04	27.387	0.01									OK
17 Oct 3:53 am MST	70	57	64	NE	16G21	9.00	-TSRA	FEW042 FEW055 OVC085	1013.1	30.05	27.397	T									OK
17 Oct 3:28 am MST	71	56	59	ESE	9G22	10.00	TS	OVC085		30.03	27.378										OK
17 Oct 2:53 am MST	70	57	64	SE	18	10.00	VCTS	OVC100	1012.3	30.02	27.369										OK
17 Oct 2:51 am MST	70	57	64	SE	16G20	10.00	VCTS	OVC100		30.03	27.378										OK
17 Oct 1:53 am MST	70	56	61	ESE	9	10.00		FEW050 SCT110	1012.4	30.03	27.378		T								OK
17 Oct 12:53 am MST	68	57	68	E	8	10.00		CLR	1012.6	30.03	27.378										OK
16 Oct 11:53 pm MST	68	59	73	ESE	12	10.00		BKN110	1013.5	30.06	27.406	T						91	63		OK
16 Oct 10:53 pm MST	66	61	84	E	5	10.00	-RA	BKN110	1014.2	30.07	27.415	0.04		0.24		72	66				OK
16 Oct 9:53 pm MST	68	61	78	E	12	10.00	-RA	OVC100	1015.5	30.11	27.452	0.02									OK
16 Oct 9:39 pm MST	68	59	73	E	7	10.00	-RA	OVC100		30.12	27.462	0.02									OK
16 Oct 9:03 pm MST	68	61	78	E	15G28	10.00	VCTS -RA	FEW037 OVC100		30.07	27.415	0.02									OK
16 Oct 8:53 pm MST	67	61	81	E	20G31	9.00	RA	OVC100	1014.3	30.06	27.406	0.05									OK
16 Oct 7:53 pm MST	69	53	61	SE	21	10.00	-RA	OVC100	1016.3	30.12	27.462	0.05	0.13								OK
16 Oct 7:02 pm MST	68	63	83	NNE	7	5.00	+RA	SCT080 OVC095		30.06	27.406	0.03									OK
16 Oct 6:53 pm MST	69	62	78	NNW	5	6.00	VCTS RA	FEW040 BKN075 OVC095	1014.8	30.07	27.415	0.09									OK
16 Oct 6:28 pm MST	70	61	73	W	12	9.00	RA	FEW050 FEW070 OVC100		30.07	27.415	0.02									OK
16 Oct 6:13 pm MST	71	62	73	WNW	8	10.00	-TSRA	OVC100		30.05	27.397	T									OK
16 Oct 6:03 pm MST	72	60	65	NNW	10	10.00	VCTS -RA	OVC100		30.03	27.378	T									OK
16 Oct 5:53 pm MST	72	60	65	NNW	13	10.00	-RA	OVC110	1013.1	30.02	27.369	T									OK
16 Oct 5:18 pm MST	83	49	31	VRBL	6	10.00		OVC100		29.98	27.332										OK
16 Oct 4:53 pm MST	79	54	42	WNW	10G21	10.00	VCTS	BKN090 OVC110	1011.3	29.98	27.332					91	79				OK
16 Oct 3:53 pm MST	88	50	29	E	10	10.00		FEW090	1010.4	29.97	27.322										OK
16 Oct 2:53 pm MST	87	49	27	E	12	10.00		CLR	1009.7	29.95	27.304										OK
16 Oct 1:53 pm MST	89	46	24	E	20G28	10.00		CLR	1009.5	29.95	27.304										OK
16 Oct 12:53 pm MST	90	49	25	E	16	10.00		CLR	1010.9	29.99	27.341										OK
16 Oct 11:53 am MST	88	49	26	ESE	20G26	10.00		CLR	1012.0	30.02	27.369										OK
16 Oct 10:53 am MST	85	49	29	ESE	17	10.00		SCT120	1012.6	30.04	27.387					85	67				OK
16 Oct 9:53 am MST	82	51	34	SSE	13	10.00		SCT110	1013.1	30.05	27.397										OK
16 Oct 8:53 am MST	78	51	42	SSE	13	10.00		CLR	1013.6	30.05	27.397										OK
16 Oct 7:53 am MST	72	51	48	S	9	10.00		CLR	1013.4	30.05	27.397										OK
16 Oct 6:53 am MST	68	50	53	SSE	10	10.00		CLR	1013.0	30.03	27.378										OK
16 Oct 5:53 am MST	69	52	56	SE	8	10.00		CLR	1012.7	30.02	27.359										OK
16 Oct 4:53 am MST	69	50	51	SE	13	10.00		CLR	1012.3	30.01	27.359					78	68				OK
16 Oct 3:53 am MST	69	51	53	SSE	7	10.00		CLR	1012.1	30.00	27.350										OK
16 Oct 2:53 am MST	70	51	51	ESE	9	10.00		OVC110	1012.0	30.01	27.359										OK
16 Oct 1:53 am MST	70	51	51	ESE	7	10.00		CLR	1011.9	30.01	27.359										OK
16 Oct 12:53 am MST	71	51	49	SSE	8	10.00		CLR	1011.7	30.00	27.350										OK
15 Oct 11:53 pm MST	74	50	43	SE	12	10.00		CLR	1011.7	30.01	27.359							86	68		OK
15 Oct 10:53 pm MST	77	48	36	SE	17	10.00		CLR	1011.2	29.99	27.341					81	75				OK
15 Oct 9:53 pm MST	75	51	43	SE	17	10.00		CLR	1011.5	29.99	27.341										OK
15 Oct 8:53 pm MST	76	51	42	SSE	16	10.00		CLR	1011.4	29.99	27.341										OK
15 Oct 7:53 pm MST	78	50	37	SE	22	10.00		CLR	1011.6	29.99	27.341										OK
15 Oct 6:53 pm MST	78	51	39	ESE	9	10.00		CLR	1011.5	29.99	27.341										OK
15 Oct 5:53 pm MST	80	52	38	ESE	7	10.00		CLR	1011.3	29.98	27.332										OK
15 Oct 4:53 pm MST	80	51	37	E	12G17	10.00		SCT095	1011.3	29.98	27.332			T		86	78				OK
15 Oct 3:53 pm MST	79	54	42	ENE	5	10.00		FEW055 BKN095 BKN110	1012.5	30.02	27.369	T									OK
15 Oct 2:53 pm MST	81	51	35	SSE	31G36	10.00	-RA	FEW095 OVC110	1013.5	30.05	27.406	T									OK
15 Oct 1:53 pm MST	84	49	30	SSE	13	10.00		FEW090 OVC110	1012.9	30.04	27.387										OK
15 Oct 12:53 pm MST	83	51	33	N	7	10.00		FEW070 OVC090	1012.3	30.03	27.378										OK
15 Oct 11:53 am MST	83	47	29	CALM		10.00		SCT110	1013.0	30.05	27.397										OK
15 Oct 10:53 am MST	80	49	34	ESE	7	10.00		CLR	1013.8	30.07	27.415					80	68				OK
15 Oct 9:53 am MST	74	51	45	NE	3	10.00		BKN080 OVC100	1013.3	30.05	27.397										OK
15 Oct 8:53 am MST	73	47	40	SSE	8	10.00		CLR	1012.7	30.03	27.378										OK
15 Oct 7:53 am MST	71	46	41	SSE	9	10.00		CLR	1012.2	30.02	27.369										OK
15 Oct 6:53 am MST	70	45	42	SSE	12	10.00		CLR	1011.7	30.01	27.359										OK
15 Oct 5:53 am MST	68	45	43	SE	6	10.00		CLR	1011.4	30.00	27.350										OK
15 Oct 4:53 am MST	68	46	46	SSE	9	10.00		CLR	1010.9	29.99	27.341					75	68				OK
15 Oct 3:53 am MST	70	47	44	SSE	5	10.00		CLR	1010.6	29.99	27.341										OK
15 Oct 2:53 am MST	72	48	43	SE	6	10.00		CLR	1010.6	29.99	27.341										OK
15 Oct 1:53 am MST	72	47	41	SSE	7	10.00		CLR	1011.2	30.00	27.350										OK
15 Oct 12:53 am MST	74	46	37	SSE	9	10.00		CLR	1011.4	30.01	27.359										OK
14 Oct 11:53 pm MST	74	46	37	SSE	5	10.00		CLR	1011.4	30.01	27.359							96	65		OK
14 Oct 10:53 pm MST	75	47	37	SSE	3	10.00		CLR	1011.7	30.02	27.369					96	75				OK
14 Oct 9:53 pm MST	77	46	34	SSW	5	10.00		CLR	1011.9	30.01	27.359										OK
14 Oct 8:53 pm MST	81	46	29	SSE	6	10.00		CLR	1011.6	30.00	27.350										OK
14 Oct 7:53 pm MST	84	48	29	CALM		10.00		CLR	1011.5	30.00	27.350										OK
14 Oct 6:53 pm MST	87	46	24	WSW	5	10.00		CLR	1011.2	29.99	27.341										OK
14 Oct 5:53 pm MST	92	45	20	NW	3	10.00		CLR	1010.5	29.98	27.332										OK
14 Oct 4:53 pm MST	95	41	16	N	5	10.00		CLR	1010.4	29.98	27.332					98	87				OK
14 Oct 3:53 pm MST	95	43	17	NW	3	10.00		CLR	1010.8	29.99	27.341										OK
14 Oct 2:53 pm MST	93	44	19	CALM		10.00		CLR	1011.4	30.01	27.359										OK
14 Oct 1:53 pm MST	94	47	20	N	6	10.00		CLR	1011.7	30.02	27.369										OK
14 Oct 12:53 pm MST	93	49	22	N	6	10.00		CLR	1012.9	30.05	27.397										OK
14 Oct 11:53 am MST	91	50	25			10.00		CLR	1014.1	30.09	27.434										OK
14 Oct 10:53 am MST	88	50	27	CALM		10.00		CLR	1014.9	30.11	27.452					88	65				OK
14 Oct 9:53 am MST	81	51	35	CALM		10.00		CLR	1015.7	30.12	27.462										OK
14 Oct 8:53 am MST	76	52	45	SSE	6	10.00		CLR	1015.9	30.13	27.471										OK
14 Oct 7:53 am MST	70	51	51	SE	8	10.00		CLR	1016.0	30.12	27.462										OK

APPENDIX 3

QUARTERLY WEATHER EVENT SUMMARY TABLE

eec

CITY OF TUCSON
CLOSED LANDFILL INSPECTION AND REPORTING
HARRISON, MULLINS, AND IRVINGTON LANDFILLS
WEATHER EVENT LOG (8/3/15 Through 11/22/15)

WEATHER EVENT OCCURENCE DATE(S)	WEATHER EVENT TYPE	WEATHER EVENT INSPECTION DATE	APPLICABLE SITES
August 7, 2015	Rain	August 12, 2015	Mullins only
August 11, 2015	Rain	August 12, 2015	Mullins only
August 22, 2015	Rain	August 26, 2015	Mullins only
August 31, 2015	Rain	September 3, 2015	Mullins, Harrison, Irvington
September 21, 2015	Rain	September 23, 2015	Mullins, Harrison, Irvington
October 6, 2015	Rain	October 13, 2015	Mullins only
October 15, 2015	Wind	October 19, 2015	Mullins, Harrison, Irvington
October 17, 2015	Wind	October 19, 2015	Mullins, Harrison, Irvington
October 21, 2015	Rain	October 23, 2015	Mullins, Harrison, Irvington
October 30, 2015	Rain	November 3, 2015	Mullins only

APPENDIX 4

SITE INSPECTION TABLE

eec

CITY OF TUCSON ENVIRONMENTAL SERVICES
QUARTERLY CLOSED LANDFILL INSPECTION
REPORT IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gates (holes, structure issues)	1) Erosion of fence posts, east fence line 2) Monitor breakaway sections of fence at wash	1) Fill and compact 2) Repair as needed following high flow
Inspection Roads (washouts, obstructions, potholes)	1) Erosion of west perimeter road east of wash 2) Erosion of south perimeter road east of wash	Fill and compact as needed
Stormwater Controls (berms, let downs, spillways)	No discrepancy	None
Stormwater Retention Basins (washouts, excessive silt in, holding water)	Erosion rills on basin slope with exposed irrigation piping exposed	Fill and compact at the discretion of COT-ES, possibly armor area with fabric/rock
Landfill Earthen Cap (washouts, trash showing, debris and trash)	No discrepancy	None
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	NA
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	NA
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	No discrepancy	None
Groundwater Monitoring Wells (including bollards, vaults, locks)	No discrepancy	None
Remediation Equipment (compound fence, erosions, leaks)	NA	NA
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	No discrepancy	None
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	No change in adjacent land uses	None
INSPECTOR SIGNATURE		DATE 11/22/15

APPENDIX 5

QUARTERLY INSPECTION PHOTO-LOG

eec

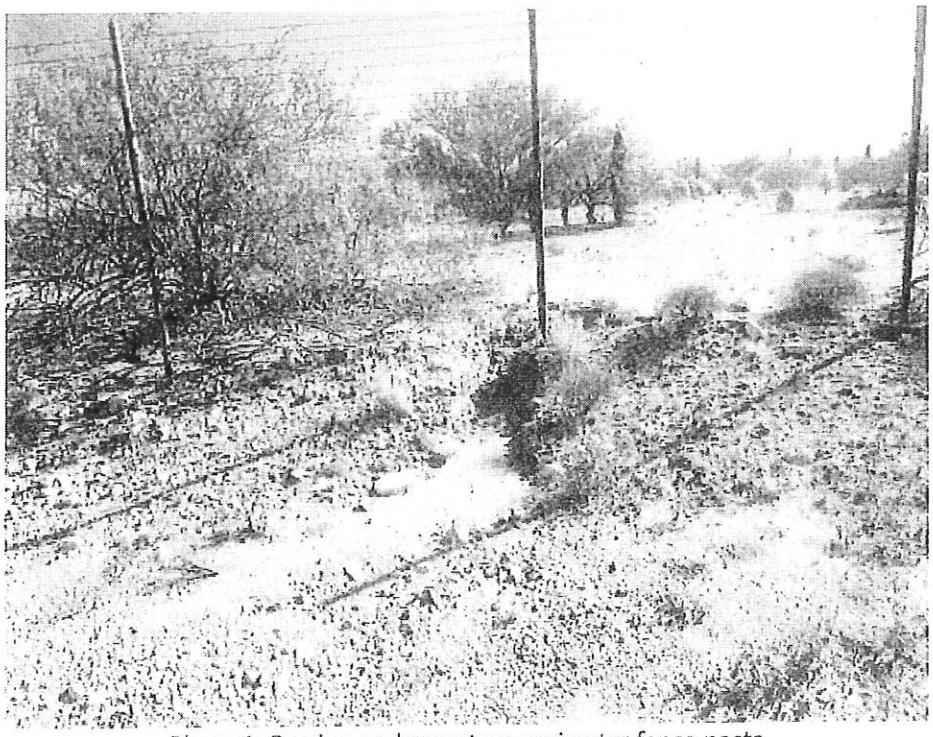


Photo 1: Erosion under eastern perimeter fence posts

Photo 2: Northern Perimeter Fence at Mesquite Ranch Wash – "breakaway" section requires repair after major storm/flow events

Photo 3: Southern Perimeter Fence at Mesquite Ranch Wash – "breakaway" section requires repair after major storm/flow events

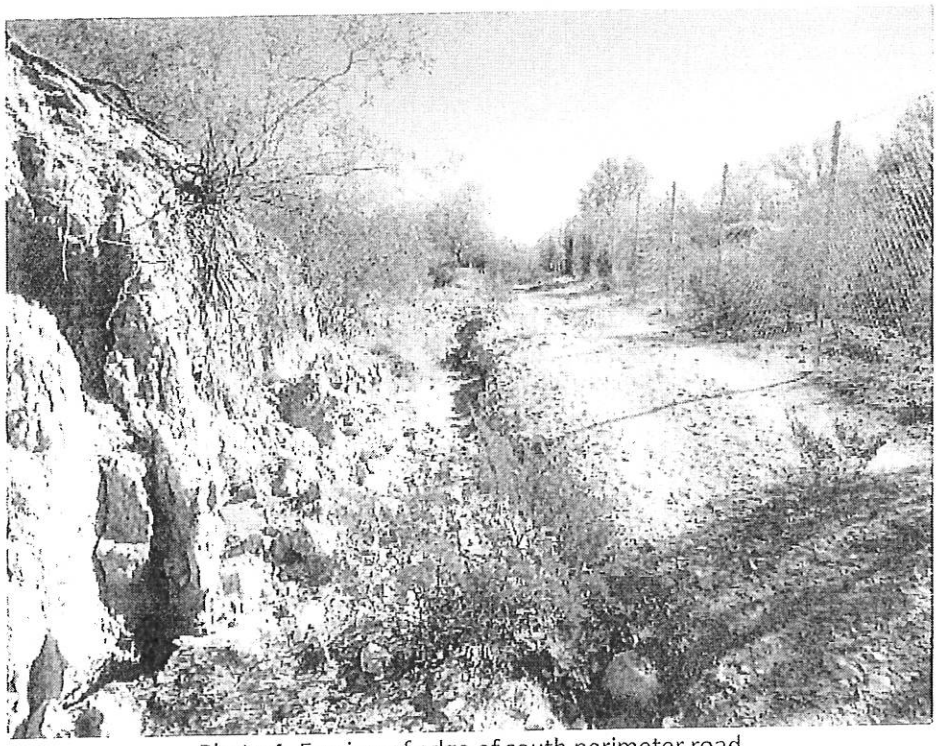


Photo 4: Erosion of edge of south perimeter road

Photo 5: Erosion on west perimeter road

Photo 6: Erosion on west perimeter road

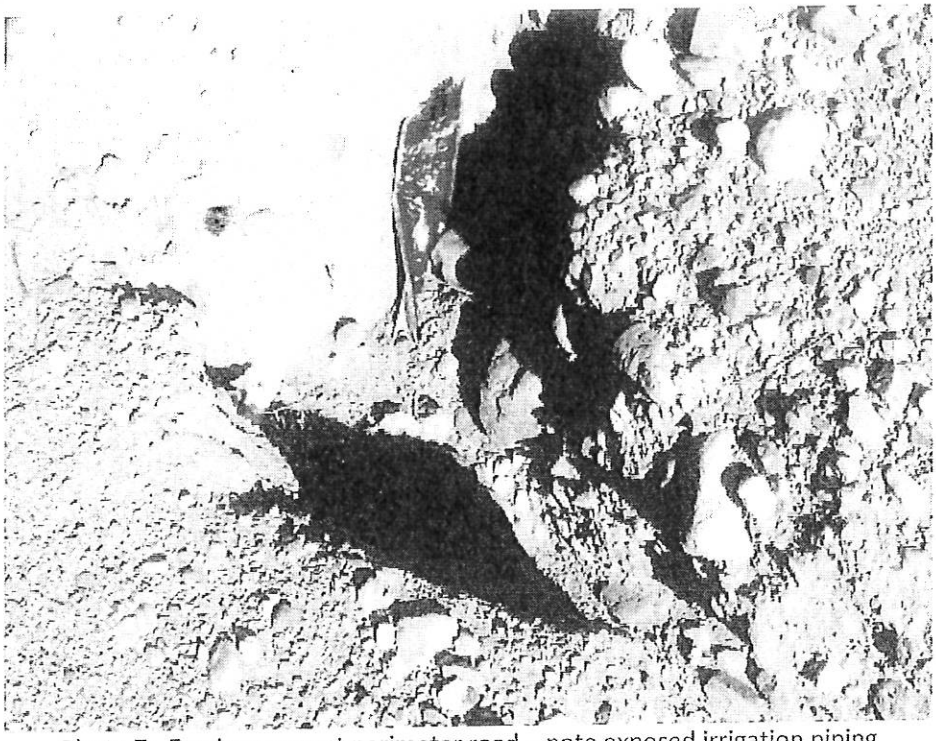


Photo 7: Erosion on west perimeter road – note exposed irrigation piping

Photo 8: View of west slope of landfill above Mesquite Ranch Wash – looking east

Photo 9: Southwest slope of landfill above Mesquite Ranch Wash

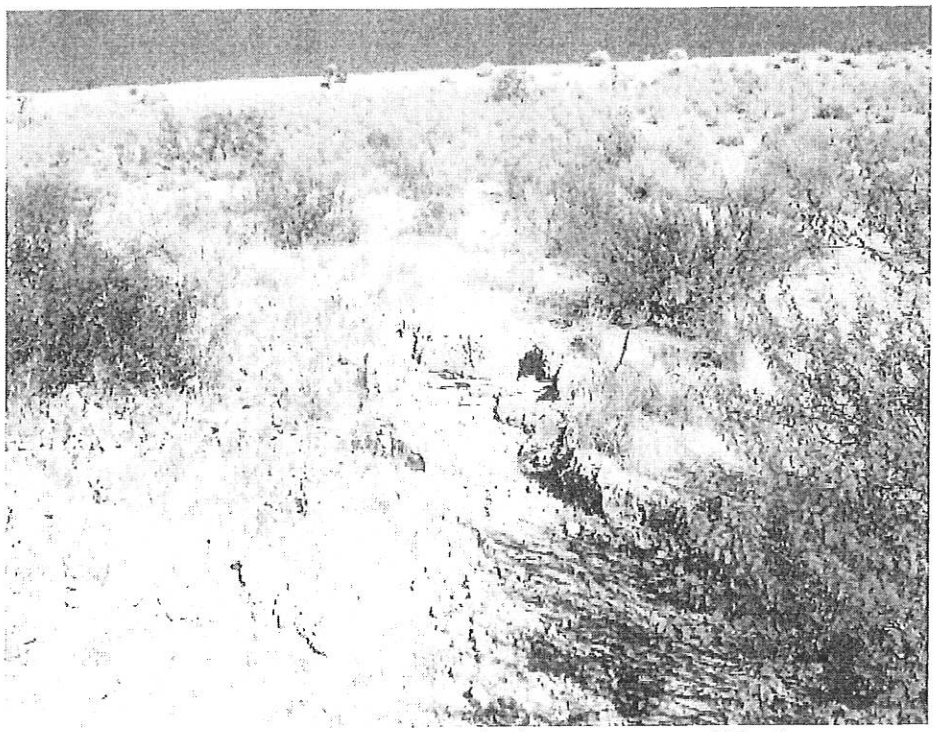


Photo 10: Erosion in stormwater basin – note exposed irigation

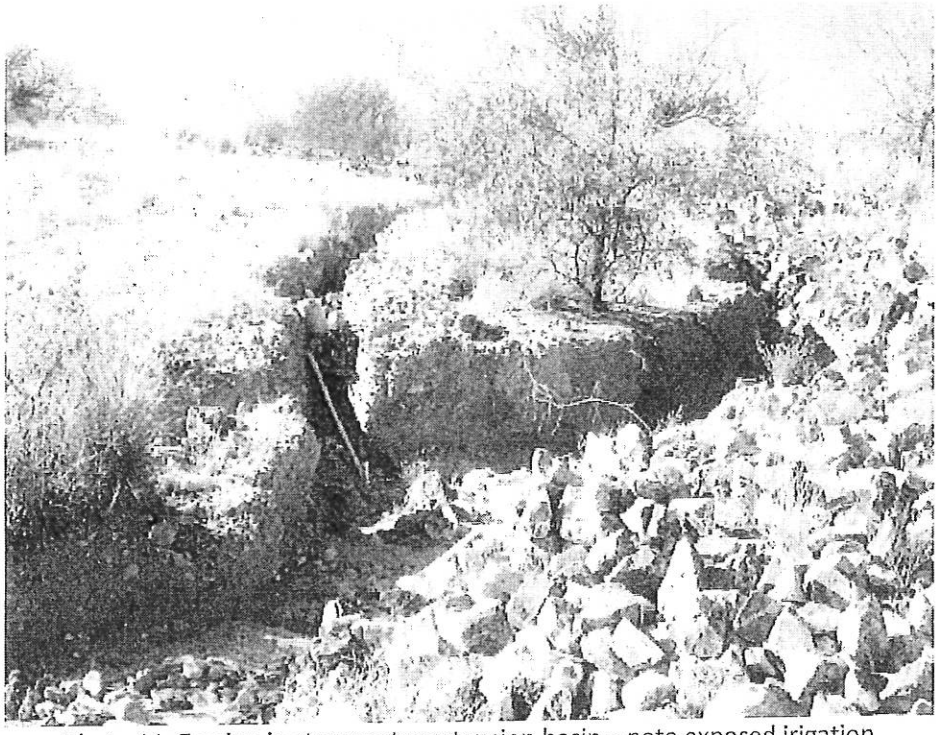


Photo 11: Erosion in stormwater retension basin – note exposed irigation

Photo 12: Landfill cap – looking north

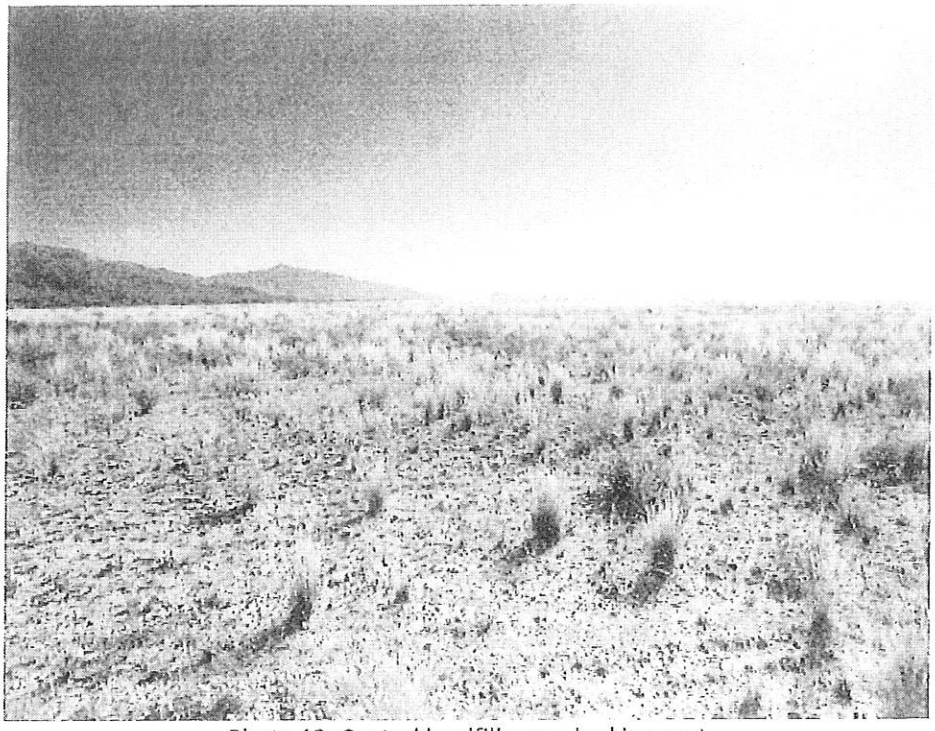


Photo 13: Central landfill cap – looking east

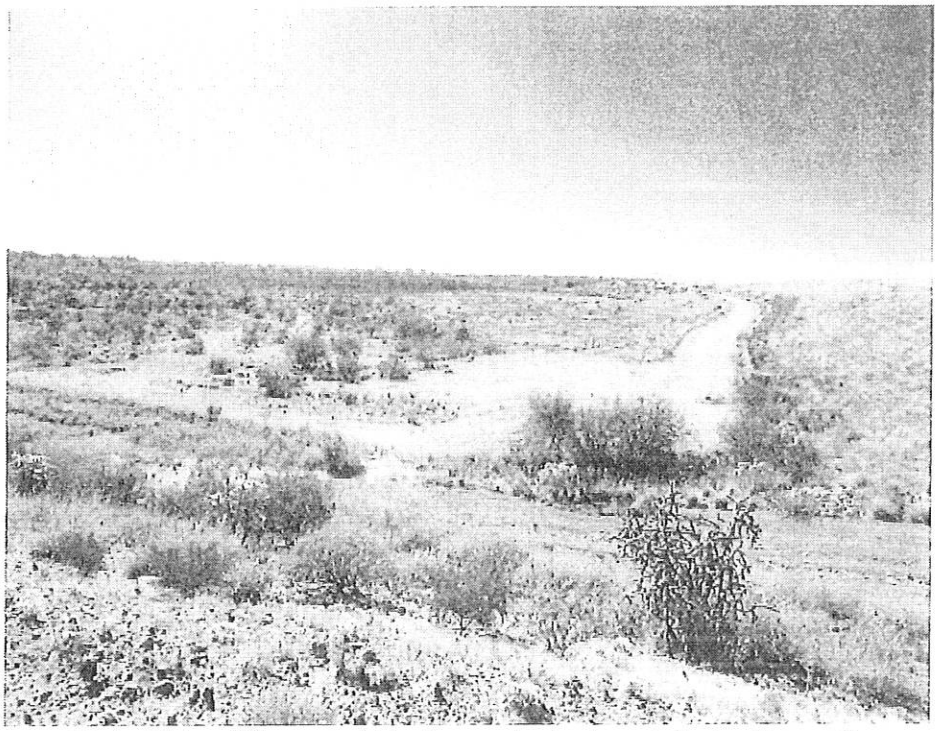


Photo 14: Landfill cap on right, stormwater basin on left – looking south

Exhibit 3

Weather Event Inspection Reports

CITY OF TUCSON ENVIRONMENTAL SERVICES
WEATHER EVENT CLOSED LANDFILL INSPECTION REPORT
IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	NONE	NONE
Inspection Roads (washouts, obstructions, potholes)	NONE	NONE
Storm Water Controls (berms, let downs, spillways)	NONE	NONE
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NONE	NONE
Landfill Earthen Cap (washouts, trash showing, debris and trash)	NONE	NONE
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	N/A	NONE
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	N/A	NONE
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Groundwater Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Remediation Equipment (compound fence, erosions, leaks)	N/A	NONE
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	NONE	NONE
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	NONE	NONE
INSPECTOR SIGNATURE William E. Rich		**DATE 2/2/2015**

IRVINGTON LANDFILL WEATHER EVENT INSPECTION
FEBUARY 2, 2015

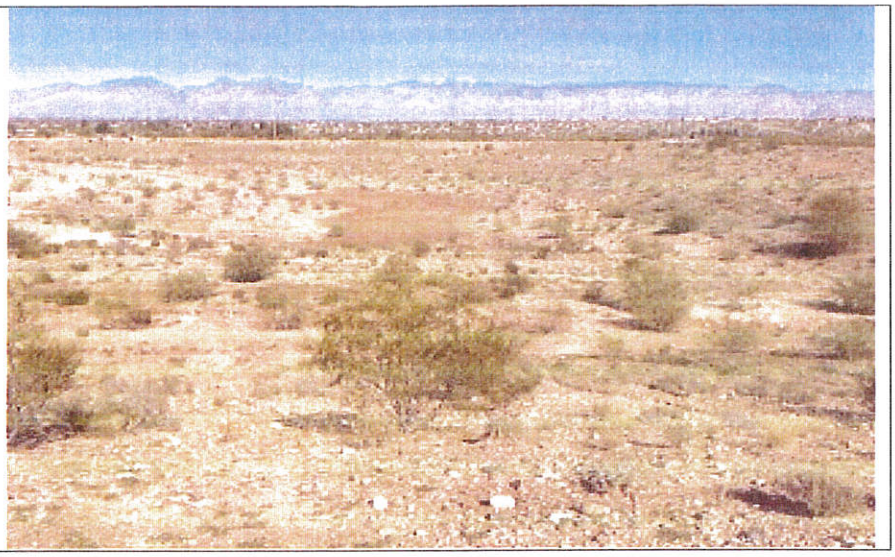
Photo #1 **Date: 2/2/2015**	
Retention basin, view to the North	

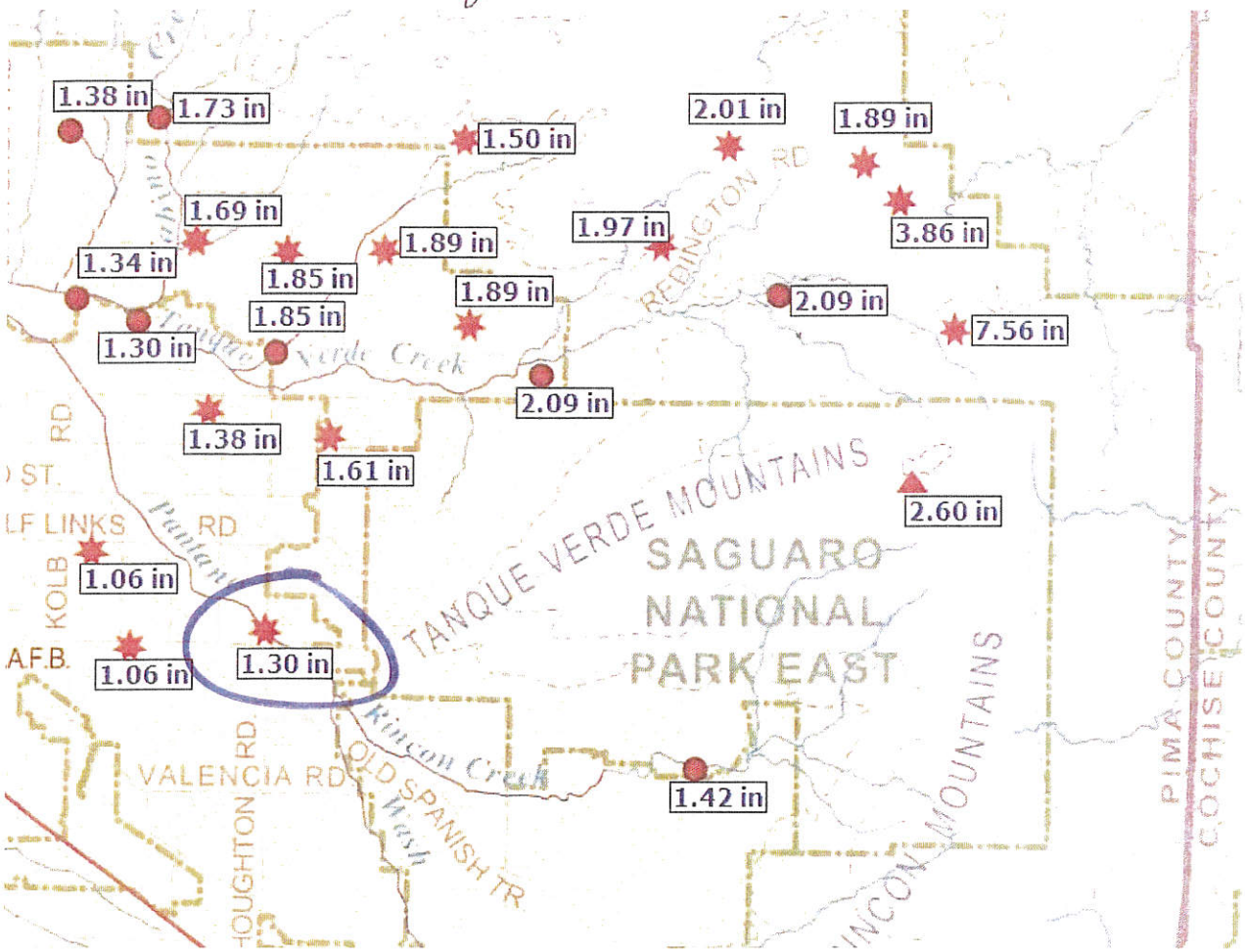
Photo #2 **Date: 2/2/2015**	
Perimeter breakaway fence at Mesquite Ranch Wash, view to the SW	

IRVINGTON LANDFILL WEATHER EVENT INSPECTION
FEBUARY 2, 2015

Photo #3 **Date: 2/2/2015** View of the repaired Western perimeter road, view to the South	

Photo #4 **Date: 2/2/2015** View of Mesquite Ranch Wash along western edge of the landfill cap, view to the NE	

1/30/15 - IRVINGTON



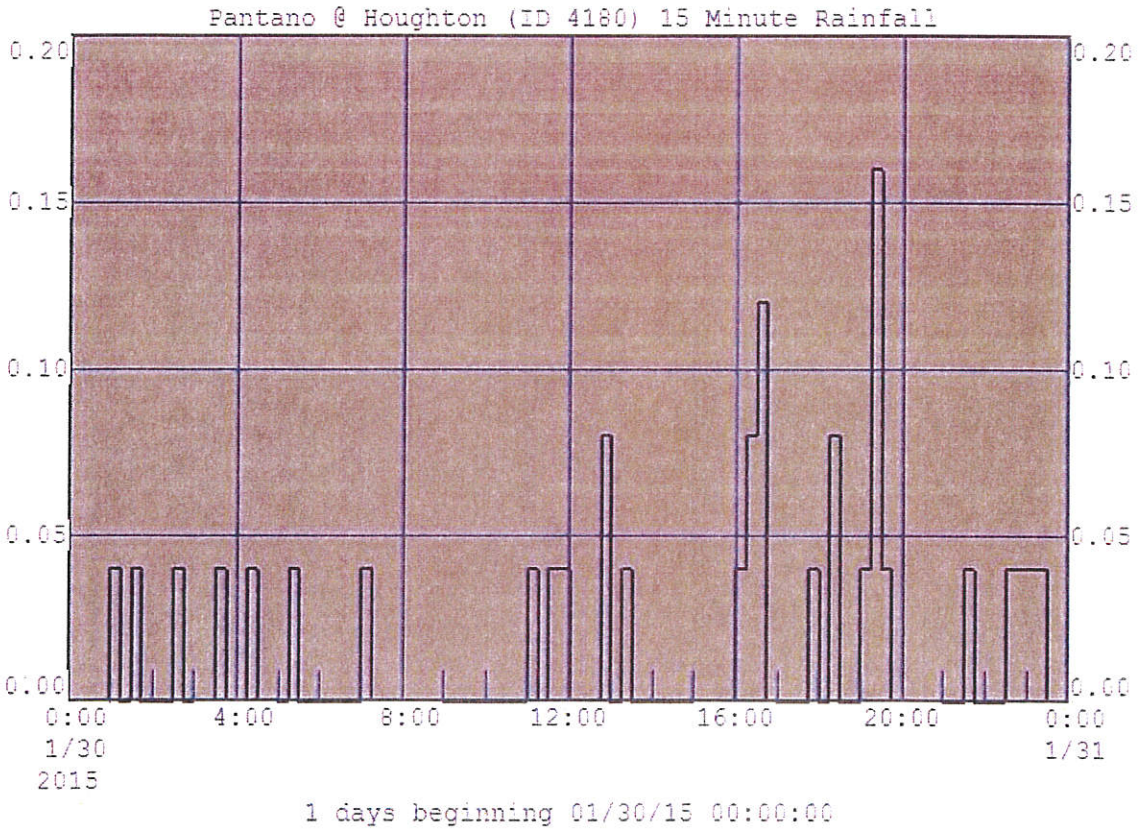
Pantano @ Houghton precip (ID 4180)

Hourly Rainfall Amounts

01/30/2015	
2400	0.08
2300	0.08
2200	0.04
2100	0.00
2000	0.24
1900	0.08
1800	0.04
1700	0.24
1600	0.00

Raw Rainfall Data

01/30/2015 23:16:02	11.18	(0.04)
01/30/2015 23:00:20	11.14	(0.04)
01/30/2015 22:50:17	11.10	(0.04)
01/30/2015 22:41:42	11.06	(0.04)
01/30/2015 21:43:30	11.02	(0.04)
01/30/2015 19:39:44	10.98	(0.04)
01/30/2015 19:25:57	10.94	(0.04)
01/30/2015 19:23:49	10.91	(0.08)
01/30/2015 19:16:55	10.83	(0.04)
01/30/2015 19:02:29	10.79	(0.04)



CITY OF TUCSON ENVIRONMENTAL SERVICES
WEATHER EVENT CLOSED LANDFILL INSPECTION REPORT
IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	NONE	NONE
Inspection Roads (washouts, obstructions, potholes)	NONE	NONE
Storm Water Controls (berms, let downs, spillways)	NONE	NONE
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NONE	NONE
Landfill Earthen Cap (washouts, trash showing, debris and trash)	NONE	NONE
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	N/A	NONE
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	N/A	NONE
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Groundwater Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Remediation Equipment (compound fence, erosions, leaks)	N/A	NONE
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	NONE	NONE
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	NONE	NONE
INSPECTOR SIGNATURE		DATE 2/13/2015

weather.gov

Weather observations for the past three days

Tucson, Tucson International Airport

Enter Your "City, ST" or zip code [ ] Go

metric en español

Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F) Air	Dwpt	6 hour Max.	6 hour Min.	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	Pressure altimeter (in)	Pressure sea level (mb)	Precipitation (in.) 1 hr	3 hr	6 hr
12	10:53	SE 23 G 32	10.00	Fair and Breezy	CLR	64	30	64	53	28%	NA	NA	30.26	1021.8			
12	09:53	E 22 G 32	10.00	Fair and Breezy	CLR	60	30			32%	NA	NA	30.26	1021.9			
12	08:53	SE 21	10.00	Fair and Breezy	CLR	58	30			35%	NA	NA	30.27	1022.4			
12	07:53	E 28 G 36	10.00	Fair and Windy	CLR	57	28			33%	NA	NA	30.25	1022.0			
12	06:53	E 13	10.00	Fair	CLR	54	30			40%	NA	NA	30.22	1020.9			
12	05:53	SE 14	10.00	Fair	CLR	53	30			41%	NA	NA	30.21	1020.5			
12	04:53	E 18 G 28	10.00	Fair	CLR	57	29	64	57	34%	NA	NA	30.19	1019.4			
12	03:53	NE 12 G 20	10.00	Fair	CLR	57	30			36%	NA	NA	30.20	1019.7			
12	02:53	E 12	10.00	Fair	CLR	58	31			36%	NA	NA	30.20	1019.6			
12	01:53	NE 8	10.00	Fair	CLR	59	33			38%	NA	NA	30.20	1019.5			
12	00:53	Vrbl 3	10.00	Fair	CLR	59	34			39%	NA	NA	30.19	1019.2			
11	23:53	E 10	10.00	Fair	CLR	63	32			31%	NA	NA	30.16	1018.2			
11	22:53	NE 12	10.00	Fair	CLR	63	32	74	62	31%	NA	NA	30.15	1018.1			
11	21:53	E 8	10.00	Fair	CLR	65	30			27%	NA	NA	30.14	1018.0			
11	20:53	E 8	10.00	Fair	CLR	66	24			20%	NA	NA	30.11	1017.2			
11	19:53	Calm	10.00	Fair	CLR	65	21			19%	NA	NA	30.08	1016.4			
11	18:53	N 9	10.00	Fair	CLR	68	18			15%	NA	NA	30.06	1015.5			
11	17:53	N 12	10.00	Fair	CLR	71	15			12%	NA	NA	30.05	1015.0			
11	16:53	N 15 G 22	10.00	Fair	CLR	74	17	76	65	11%	NA	NA	30.03	1014.4			
11	15:53	N 18 G 25	10.00	Fair	CLR	75	20			12%	NA	NA	30.02	1013.8			
11	14:53	N 17	10.00	Fair	CLR	76	23			14%	NA	76	30.02	1013.6			
11	13:53	Vrbl 5	10.00	Fair	CLR	74	29			19%	NA	NA	30.03	1013.8			
11	12:53	NE 5	10.00	Fair	CLR	73	34			24%	NA	NA	30.06	1015.1			
11	11:53	N 6	10.00	Fair	CLR	69	36			30%	NA	NA	30.08	1015.9			
11	10:53	Vrbl 3	10.00	Fair	CLR	65	38	65	47	37%	NA	NA	30.09	1016.6			
11	09:53	S 5	10.00	Fair	CLR	59	35			41%	NA	NA	30.08	1016.3			

11	08:53	S 7	10.00	Fair	CLR	53	34			48%	NA	NA	30.07	1016.1
11	07:53	S 10	10.00	Fair	CLR	49	34			56%	45	NA	30.06	1015.6
11	06:53	SE 8	10.00	Fair	CLR	48	34			58%	44	NA	30.04	1015.0
11	05:53	SE 8	10.00	Fair	CLR	48	35			61%	44	NA	30.02	1014.0
11	04:53	SE 8	10.00	Fair	CLR	48	35	56	48	61%	44	NA	30.01	1013.7
11	03:53	SE 7	10.00	Fair	CLR	50	35			57%	47	NA	30.01	1013.1
11	02:53	S 6	10.00	Fair	CLR	50	36			59%	48	NA	30.01	1013.2
11	01:53	S 6	10.00	Fair	CLR	53	36			52%	NA	NA	30.01	1013.2
11	00:53	S 6	10.00	Fair	CLR	53	37			55%	NA	NA	30.01	1013.4
10	23:53	S 3	10.00	Fair	CLR	55	36			49%	NA	NA	30.01	1013.5
10	22:53	SE 5	10.00	Fair	CLR	55	37	78	55	51%	NA	NA	30.01	1013.6
10	21:53	S 7	10.00	Fair	CLR	59	35			41%	NA	NA	30.00	1013.4
10	20:53	S 6	10.00	Fair	CLR	62	33			34%	NA	NA	29.99	1013.0
10	19:53	Calm	10.00	Fair	CLR	66	31			27%	NA	NA	29.97	1012.5
10	18:53	N 8	10.00	Fair	CLR	69	30			23%	NA	NA	29.97	1012.3
10	17:53	N 7	10.00	Fair	CLR	74	24			15%	NA	NA	29.95	1011.4
10	16:53	N 13	10.00	Fair	CLR	78	24	81	68	13%	NA	77	29.95	1010.9
10	15:53	NW 9	10.00	Fair	CLR	80	25			13%	NA	78	29.94	1010.6
10	14:53	N 8	10.00	Fair	CLR	80	25			13%	NA	78	29.95	1010.9
10	13:53	N 12	10.00	Fair	CLR	80	26			14%	NA	78	29.97	1011.5
10	12:53	Vrbl 7	10.00	Fair	CLR	77	34			21%	NA	77	30.00	1012.5
10	11:53	Calm	10.00	Fair	CLR	73	36			26%	NA	NA	30.03	1013.7
10	10:53	Calm	10.00	Fair	CLR	68	36	68	48	31%	NA	NA	30.04	1014.2
10	09:53	S 7	10.00	Fair	CLR	63	37			38%	NA	NA	30.04	1014.5
10	08:53	SE 9	10.00	Fair	CLR	57	37			47%	NA	NA	30.03	1014.3
10	07:53	SE 9	10.00	Fair	CLR	51	38			61%	NA	NA	30.03	1014.6
10	06:53	S 9	10.00	Fair	CLR	49	37			64%	45	NA	30.03	1014.5
10	05:53	SE 9	10.00	Fair	CLR	50	37			61%	46	NA	30.02	1013.9
10	04:53	SE 9	10.00	Fair	CLR	51	39	60	50	64%	NA	NA	30.02	1013.3
10	03:53	SE 9	10.00	Fair	CLR	51	40			66%	NA	NA	30.02	1013.2
10	02:53	SE 8	10.00	Fair	CLR	52	41			66%	NA	NA	30.03	1013.6
10	01:53	SE 8	10.00	Fair	CLR	54	41			62%	NA	NA	30.04	1013.9
10	00:53	SE 5	10.00	Fair	CLR	55	45			69%	NA	NA	30.04	1014.1
09	23:53	S 6	10.00	Fair	CLR	57	46			67%	NA	NA	30.05	1014.7
09	22:53	S 5	10.00	Fair	CLR	59	47	82	59	64%	NA	NA	30.05	1015.0
09	21:53	S 6	10.00	Fair	CLR	60	47			62%	NA	NA	30.05	1015.0
09	20:53	W 6	10.00	Fair	CLR	64	47			54%	NA	NA	30.04	1014.9
09	19:53	SW 7	10.00	Fair	CLR	65	46			51%	NA	NA	30.03	1014.8
09	18:53	N 8	10.00	Fair	CLR	71	45			39%	NA	NA	30.02	1014.0
09	17:53	N 13	10.00	Fair	CLR	75	44			33%	NA	NA	30.02	1013.5
09	16:53	N 13	10.00	Fair	CLR	82	31	84	67	16%	NA	80	30.01	1012.9
09	15:53	N 12	10.00	Fair	CLR	84	21			10%	NA	81	30.01	1012.7
09	14:53	NW 5	10.00	Fair	CLR	83	31			15%	NA	80	30.03	1013.6
09	13:53	Calm	10.00	Fair	CLR	82	34			18%	NA	80	30.05	1014.3

09	12:53	NW 6	10.00	Fair	CLR	79	39		24%	NA	78	30.09	1015.7			
09	11:53	Calm	10.00	Fair	CLR	73	39		29%	NA	NA	30.13	1017.3			
Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Air	Dwpt	Max. Min. 6 hour	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	altimeter (in.)	sea level (mb)	1 hr	3 hr	6 hr
						Temperature (°F)						Pressure		Precipitation (in.)		

National Weather Service
Southern Region Headquarters
Fort Worth, Texas
Disclaimer

Back to previous page

Last Modified: Febuary, 7 2012
Privacy Policy

CITY OF TUCSON ENVIRONMENTAL SERVICES
WEATHER EVENT CLOSED LANDFILL INSPECTION REPORT
IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	FENCE LOOSE @ MESQUITE RANCH WASH	REPAIR SCHEDULED 4/15
Inspection Roads (washouts, obstructions, potholes)	NONE	NONE
Storm Water Controls (berms, let downs, spillways)	NONE	NONE
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NONE	NONE
Landfill Earthen Cap (washouts, trash showing, debris and trash)	NONE	NONE
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	NA
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	NA
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Groundwater Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Remediation Equipment (compound fence, erosions, leaks)	NA	NA
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	NONE	NONE
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	NONE	NONE
INSPECTOR SIGNATURE		DATE 3/6/15

weather.gov

Weather observations for the past three days

Tucson, Tucson International Airport

Enter Your "City, ST" or zip code Go

metric en español

Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F) Air	Dwpt	6 hour Max.	Min.	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	Pressure altimeter (in)	sea level (mb)	Precipitation (in.) 1 hr	3 hr	6 hr
02	10:53	S 17 G 30	10.00	Partly Cloudy	SCT065 SCT080	66	44	66	60	45%	NA	NA	29.96	1011.2			
02	09:53	S 16 G 21	10.00	Overcast	SCT048 OVC060	63	44			50%	NA	NA	30.00	1012.7			
02	08:53	S 15 G 26	10.00	Overcast	BKN055 OVC070	63	42			47%	NA	NA	29.98	1012.3			
02	07:53	S 9	10.00	Overcast	OVC060	61	44			54%	NA	NA	29.97	1011.8			
02	06:53	Calm	10.00	Overcast	BKN048 OVC060	61	45			56%	NA	NA	29.97	1011.8			
02	05:53	SW 8	10.00	Overcast	OVC050	61	44			54%	NA	NA	29.97	1011.7			
02	04:53	Calm	10.00	Overcast	BKN055 OVC110	61	44	65	60	54%	NA	NA	29.97	1011.6			
02	03:53	SW 7	10.00	A Few Clouds	FEW055	60	44			56%	NA	NA	29.97	1011.5			
02	02:53	S 9	10.00	A Few Clouds	FEW055	63	43			48%	NA	NA	29.97	1011.5			
02	01:53	S 3	10.00	A Few Clouds	FEW120	62	44			52%	NA	NA	29.98	1011.8			
02	00:53	SE 5	10.00	Fair	CLR	63	43			48%	NA	NA	29.99	1012.1			
01	23:53	SW 3	10.00	Fair	CLR	64	44			48%	NA	NA	30.01	1013.0			
01	22:53	S 7	10.00	A Few Clouds	FEW070	65	44	73	65	47%	NA	NA	30.01	1013.2			
01	21:53	S 8	10.00	Fair	CLR	66	43			43%	NA	NA	30.03	1013.6			
01	20:53	SE 5	10.00	Fair	CLR	66	42			42%	NA	NA	30.02	1013.4			
01	19:53	S 6	10.00	Fair	CLR	67	41			39%	NA	NA	30.00	1013.0			
01	18:53	SW 7	10.00	Fair	CLR	69	42			38%	NA	NA	29.98	1012.4			
01	17:53	SW 14	10.00	Fair	CLR	72	41			33%	NA	NA	29.96	1011.5			
01	16:53	S 16	10.00	Fair	CLR	73	41	76	66	32%	NA	NA	29.95	1011.0			
01	15:53	SW 15	10.00	Fair	CLR	75	41			29%	NA	NA	29.95	1010.7			
01	14:53	S 8 G 22	10.00	Partly Cloudy	SCT080	74	40			29%	NA	NA	29.95	1010.9			
01	13:53	S 9	10.00	Mostly Cloudy	BKN080	73	39			29%	NA	NA	29.96	1011.3			
01	12:53	SW 16 G 23	10.00	Fair	CLR	74	38			27%	NA	NA	29.99	1012.3			
01	11:53	SW 12 G 21	10.00	Fair	CLR	70	38			31%	NA	NA	30.02	1013.5			
01	10:53	E 7	10.00	Fair	CLR	66	39	66	53	37%	NA	NA	30.05	1014.6			

01	09:53	S 6	10.00	A Few Clouds	FEW048	65	38			37%	NA	NA	30.05	1014.7
01	08:53	SE 7	10.00	Fair	CLR	61	39			44%	NA	NA	30.05	1014.9
01	07:53	E 7	10.00	Fair	CLR	56	39			53%	NA	NA	30.03	1014.4
01	06:53	E 8	10.00	Fair	CLR	55	40			57%	NA	NA	30.01	1013.6
01	05:53	E 5	10.00	Fair	CLR	55	43			64%	NA	NA	30.00	1013.1
01	04:53	Calm	10.00	Partly Cloudy	SCT100	55	44	59	55	67%	NA	NA	29.98	1012.6
01	03:53	E 6	10.00	Overcast	OVC090	58	45			62%	NA	NA	29.98	1012.2
01	02:53	E 6	10.00	Fair	CLR	57	45			64%	NA	NA	29.98	1012.3
01	01:53	E 3	10.00	Fair	CLR	59	45			60%	NA	NA	29.98	1012.2
01	00:53	E 5	10.00	Fair	CLR	59	45			60%	NA	NA	29.98	1012.0
28	23:53	E 3	10.00	Fair	CLR	57	44			62%	NA	NA	29.98	1012.7
28	22:53	NE 5	10.00	Fair	CLR	59	44	70	59	58%	NA	NA	29.99	1012.7
28	21:53	Calm	10.00	Overcast	OVC110	62	44			52%	NA	NA	29.97	1012.2
28	20:53	W 7	10.00	Mostly Cloudy	BKN110	62	44			52%	NA	NA	29.95	1011.6
28	19:53	W 10	10.00	Mostly Cloudy	BKN085	64	43			46%	NA	NA	29.94	1011.1
28	18:53	W 12	10.00	Overcast	OVC080	67	41			39%	NA	NA	29.91	1010.0
28	17:53	SW 10 G 20	10.00	Fair	CLR	68	41			38%	NA	NA	29.88	1009.0
28	15:53	SW 7	10.00	Overcast	BKN065 OVC075	70	43			38%	NA	NA	29.86	1008.1
28	14:53	SW 7	10.00	Overcast	OVC070	69	42			38%	NA	NA	29.86	1008.2
28	13:53	W 13	10.00	Mostly Cloudy	BKN060 BKN070	69	43			39%	NA	NA	29.88	1008.8
28	12:53	SW 16 G 24	10.00	Mostly Cloudy	BKN065	70	44			39%	NA	NA	29.90	1009.3
28	11:53	SW 21 G 31	10.00	Mostly Cloudy and Breezy	BKN050	66	44			45%	NA	NA	29.92	1010.3
28	10:53	SW 23 G 33	10.00	Partly Cloudy and Breezy	SCT041	66	44	66	57	45%	NA	NA	29.92	1010.2
28	09:53	S 25 G 33	10.00	Fair and Breezy	CLR	63	44			50%	NA	NA	29.91	1009.9
28	08:53	SW 20 G 29	10.00	Fair	CLR	59	43			56%	NA	NA	29.90	1009.6
28	07:53	S 5	10.00	Fair	CLR	58	43			58%	NA	NA	29.86	1008.4
28	06:53	S 12	10.00	Fair	CLR	57	42			58%	NA	NA	29.84	1007.6
28	05:53	S 5	10.00	Fair	CLR	57	41			55%	NA	NA	29.82	1006.8
28	04:53	S 9	10.00	Fair	CLR	57	39	61	56	51%	NA	NA	29.81	1006.3
28	03:53	W 5	10.00	Fair	CLR	57	38			49%	NA	NA	29.81	1006.2
28	02:53	S 17 G 23	10.00	Fair	CLR	59	38			46%	NA	NA	29.80	1005.7
28	01:53	S 13 G 18	10.00	Fair	CLR	58	38			48%	NA	NA	29.80	1005.8

Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Air	Dwpt	Max. 6 hour	Min. 6 hour	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	altimeter (in.)	sea level (mb)	1 hr	3 hr	6 hr
						Temperature (°F)							Pressure		Precipitation (in.)		
28	00:53	Vrbl 3	10.00	Fair	CLR	59	36			42%	NA	NA	29.80	1005.9			
27	23:53	SW 5	10.00	Fair	CLR	60	37			42%	NA	NA	29.79	1005.7			
27	22:53	SW 7	10.00	Fair	CLR	61	36	73	61	39%	NA	NA	29.80	1006.0			
27	21:53	Calm	10.00	Fair	CLR	62	40			44%	NA	NA	29.79	1005.9			
27	20:53	W 5	10.00	Fair	CLR	64	38			38%	NA	NA	29.77	1005.3			
27	19:53	W 9	10.00	Fair	CLR	66	35			32%	NA	NA	29.74	1004.6			
27	18:53	SW 7	10.00	Fair	CLR	68	34			28%	NA	NA	29.73	1004.2			
27	17:53	SW 17	10.00	Fair	CLR	71	31			23%	NA	NA	29.71	1003.5			
27	16:53	W 18	10.00	Fair	CLR	73	30	75	66	20%	NA	NA	29.70	1003.0			
27	15:53	W 18 G 25	10.00	Fair	CLR	75	25			15%	NA	NA	29.70	1003.0			
27	14:53	SW 17	10.00	Fair	CLR	74	25			16%	NA	NA	29.72	1003.6			
27	13:53	W 17 G 25	10.00	Fair	CLR	74	24			15%	NA	NA	29.74	1004.1			
27	12:53	SW 13 G 23	10.00	Fair	CLR	72	25			17%	NA	NA	29.77	1005.3			
27	11:53	SW 9 G 17	10.00	Fair	CLR	69	29			22%	NA	NA	29.81	1006.7			

weather.gov

Weather observations for the past three days

Tucson, Tucson International Airport

Enter Your "City, ST" or zip code [ ] Go metric en español

Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F) Air	Dwpt	6 hour Max.	Min.	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	Pressure altimeter (in)	sea level (mb)	Precipitation (in.) 1 hr	3 hr	6 hr
04	13:53	N 12	10.00	A Few Clouds	FEW065	60	32			35%	NA	NA	30.01	1014.4			
04	12:53	NW 10	10.00	Overcast	SCT049 BKN060 OVC075	60	35			39%	NA	NA	30.02	1014.6			
04	11:53	Vrbl 6	10.00	Fair	CLR	59	39			48%	NA	NA	30.03	1014.9			
04	10:53	N 8	10.00	Overcast	OVC085	57	37	57	47	47%	NA	NA	30.03	1014.8			
04	09:53	W 3	10.00	Overcast	OVC085	53	40			61%	NA	NA	30.02	1014.8			
04	08:53	NA	10.00	Mostly Cloudy	FEW065 BKN085	53	40			61%	NA	NA	30.00	1014.0			
04	07:53	W 3	10.00	Partly Cloudy	SCT070	48	40			74%	NA	NA	29.97	1013.3			
04	06:53	W 3	10.00	Partly Cloudy	FEW075 SCT100	47	40			77%	NA	NA	29.95	1012.3			
04	05:53	W 3	10.00	Partly Cloudy	SCT065	47	40			77%	NA	NA	29.92	1011.3			
04	04:53	NW 3	10.00	Overcast	OVC100	48	40	50	47	74%	NA	NA	29.91	1010.6			
04	03:53	W 3	10.00	Overcast	BKN065 BKN080 OVC110	48	40			74%	NA	NA	29.90	1010.4			
04	02:53	W 5	10.00	Mostly Cloudy	FEW065 SCT080 BKN110	47	39			74%	45	NA	29.90	1010.5			
04	01:53	W 8	10.00	Mostly Cloudy	FEW060 BKN080	48	39			71%	44	NA	29.90	1010.5			
04	00:53	W 8	10.00	Partly Cloudy	SCT080	49	39			69%	46	NA	29.89	1010.3			
03	23:53	W 7	10.00	Overcast	BKN070 OVC080	50	38			63%	47	NA	29.89	1010.2			
03	22:53	W 6	10.00	Mostly Cloudy	BKN075	50	38	62	50	63%	48	NA	29.89	1010.2			
03	21:53	SW 5	10.00	Fair	CLR	50	37			61%	48	NA	29.89	1010.3			
03	20:53	NW 5	10.00	Fair	CLR	54	35			49%	NA	NA	29.87	1009.7			
03	19:53	NW 6	10.00	Fair	CLR	55	35			47%	NA	NA	29.87	1009.6			
03	18:53	N 9	10.00	Fair	CLR	57	35			44%	NA	NA	29.85	1009.0			
03	17:53	N 10	10.00	A Few Clouds	FEW060 FEW075	60	36			41%	NA	NA	29.84	1008.4			
03	16:53	N 10	10.00	Overcast	OVC060	63	36	63	56	37%	NA	NA	29.84	1008.3			
03	15:53	N 8 G 16	10.00	Partly Cloudy	SCT060	62	36			38%	NA	NA	29.85	1008.5			

03	14:53	Vrbl 5	10.00	Mostly Cloudy	BKN065	63	34			34%	NA	NA	29.86	1008.8			
03	13:53	W 7	10.00	A Few Clouds	FEW065	61	35			38%	NA	NA	29.88	1009.8			
03	12:53	Vrbl 5	10.00	Partly Cloudy	SCT055	60	37			42%	NA	NA	29.92	1011.0			
03	11:53	Calm	10.00	Partly Cloudy	SCT055	58	37			46%	NA	NA	29.94	1011.8			
03	10:53	SE 5	10.00	A Few Clouds	FEW029	57	39	57	46	51%	NA	NA	29.95	1012.3			
03	09:53	Calm	10.00	A Few Clouds	FEW026	54	42			64%	NA	NA	29.96	1012.5			
03	08:53	Calm	10.00	A Few Clouds	FEW032	52	45			77%	NA	NA	29.96	1012.8			
03	07:53	Vrbl 5	10.00	Fair	CLR	48	44			86%	46	NA	29.94	1012.5			
03	06:53	SW 3	10.00	Partly Cloudy	SCT033	46	44			93%	NA	NA	29.94	1012.3			
03	05:53	Calm	10.00	Fair	CLR	47	44			90%	NA	NA	29.93	1012.1			
03	04:53	W 3	10.00	Mostly Cloudy	BKN065	48	46	52	48	93%	NA	NA	29.92	1011.7			
03	03:53	W 3	10.00	Mostly Cloudy	BKN065	50	46			86%	NA	NA	29.94	1011.6			
03	02:53	NW 3	10.00	Overcast	OVC070	51	45			80%	NA	NA	29.94	1011.6			
03	01:53	NW 5	10.00	Overcast	BKN060 OVC080	51	46			83%	NA	NA	29.97	1012.2			
03	00:53	N 5	10.00	Overcast	SCT060 OVC070	52	47			83%	NA	NA	29.98	1012.6			
02	23:53	N 3	10.00	Mostly Cloudy	BKN060 BKN075	52	47			83%	NA	NA	29.99	1013.3			
02	22:53	NE 5	10.00	Overcast	OVC055	52	47	53	51	83%	NA	NA	30.02	1014.1			0.24
02	21:53	E 5	10.00	Overcast	SCT055 OVC080	52	48			86%	NA	NA	30.02	1014.4			
02	20:53	E 7	10.00	Overcast	OVC055	52	48			86%	NA	NA	30.03	1014.7			
02	19:53	NE 6	10.00	Overcast	SCT035 OVC050	52	48			86%	NA	NA	30.02	1014.6	0.03	0.24	
02	18:53	W 3	10.00	Overcast	BKN039 OVC049	53	47			80%	NA	NA	30.01	1014.1	0.01		
02	17:53	N 12	9.00	Overcast	SCT007 OVC012	51	49			92%	NA	NA	29.99	1013.5	0.20		
02	16:53	N 10	1.25	Heavy Rain Fog/Mist	BKN010 OVC016	51	48	69	51	89%	NA	NA	29.96	1012.5	0.10		0.10
02	15:53	W 15 G 30	10.00	Mostly Cloudy	FEW042 SCT070 BKN100	62	48			60%	NA	NA	29.92	1010.7			
02	14:53	S 28 G 38	10.00	A Few Clouds and Windy	FEW080	67	45			45%	NA	NA	29.91	1009.6			
02	13:53	S 26 G 44	10.00	Fair and Windy	CLR	68	44			42%	NA	NA	29.89	1009.1			
02	12:53		10.00		FEW055	67	48			51%	NA	NA	29.92	1010.2			

		S 20 G 32		A Few Clouds													
02	11:53	SW 13 G 25	10.00	Overcast	OVC060	66	44			45%	NA	NA	29.94	1010.9			
02	10:53	S 17 G 30	10.00	Partly Cloudy	SCT065 SCT080	66	44	66	60	45%	NA	NA	29.96	1011.2			
02	09:53	S 16 G 21	10.00	Overcast	SCT048 OVC060	63	44			50%	NA	NA	30.00	1012.7			
02	08:53	S 15 G 26	10.00	Overcast	BKN055 OVC070	63	42			47%	NA	NA	29.98	1012.3			
02	07:53	S 9	10.00	Overcast	OVC060	61	44			54%	NA	NA	29.97	1011.8			
02	06:53	Calm	10.00	Overcast	BKN048 OVC060	61	45			56%	NA	NA	29.97	1011.8			
02	05:53	SW 8	10.00	Overcast	OVC050	61	44			54%	NA	NA	29.97	1011.7			
02	04:53	Calm	10.00	Overcast	BKN055 OVC110	61	44	65	60	54%	NA	NA	29.97	1011.6			
02	03:53	SW 7	10.00	A Few Clouds	FEW055	60	44			56%	NA	NA	29.97	1011.5			
02	02:53	S 9	10.00	A Few Clouds	FEW055	63	43			48%	NA	NA	29.97	1011.5			
02	01:53	S 3	10.00	A Few Clouds	FEW120	62	44			52%	NA	NA	29.98	1011.8			
02	00:53	SE 5	10.00	Fair	CLR	63	43			48%	NA	NA	29.99	1012.1			
01	23:53	SW 3	10.00	Fair	CLR	64	44			48%	NA	NA	30.01	1013.0			
01	22:53	S 7	10.00	A Few Clouds	FEW070	65	44	73	65	47%	NA	NA	30.01	1013.2			
01	21:53	S 8	10.00	Fair	CLR	66	43			43%	NA	NA	30.03	1013.6			
01	20:53	SE 5	10.00	Fair	CLR	66	42			42%	NA	NA	30.02	1013.4			
01	19:53	S 6	10.00	Fair	CLR	67	41			39%	NA	NA	30.00	1013.0			
01	18:53	SW 7	10.00	Fair	CLR	69	42			38%	NA	NA	29.98	1012.4			
01	17:53	SW 14	10.00	Fair	CLR	72	41			33%	NA	NA	29.96	1011.5			
01	16:53	S 16	10.00	Fair	CLR	73	41	76	66	32%	NA	NA	29.95	1011.0			
01	15:53	SW 15	10.00	Fair	CLR	75	41			29%	NA	NA	29.95	1010.7			
01	14:53	S 8 G 22	10.00	Partly Cloudy	SCT080	74	40			29%	NA	NA	29.95	1010.9			
Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Air	Dwpt	Max.	Min.	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	altimeter (in.)	sea level (mb)	1 hr	3 hr	6 hr
						Temperature (°F)		6 hour					Pressure		Precipitation (in.)		

National Weather Service
Southern Region Headquarters
Fort Worth, Texas
Disclaimer

Back to previous page

Last Modified: Febuary 7 2012
Privacy Policy

CITY OF TUCSON ENVIRONMENTAL SERVICES
WEATHER EVENT CLOSED LANDFILL INSPECTION REPORT
IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	FENCE LOOSE @ MESQUITE RANCH WASH	REPAIR SCHEDULED 4/15
Inspection Roads (washouts, obstructions, potholes)	NONE	NONE
Storm Water Controls (berms, let downs, spillways)	NONE	NONE
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NONE	NONE
Landfill Earthen Cap (washouts, trash showing, debris and trash)	NONE	NONE
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	NA
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	NA
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Groundwater Monitoring Wells (including bollards, vaults, locks)	NONE	NONE
Remediation Equipment (compound fence, erosions, leaks)	NA	NA
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	NONE	NONE
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	NONE	NONE
INSPECTOR SIGNATURE		DATE 3/2/15

weather.gov

Weather observations for the past three days

Tucson, Tucson International Airport

Enter Your "City, ST" or zip code [ ] Go

metric en español

Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F) Air	Dwpt	6 hour Max.	Min.	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	Pressure altimeter (in)	sea level (mb)	Precipitation (in.) 1 hr	3 hr	6 hr
09	06:53	SE 10	10.00	Fair	CLR	49	30			48%	45	NA	29.99	1013.0			
09	05:53	SE 9	10.00	Fair	CLR	48	31			52%	44	NA	29.98	1012.6			
09	04:53	S 6	10.00	Fair	CLR	48	31	57	48	52%	45	NA	29.98	1012.5			
09	03:53	SE 9	10.00	Fair	CLR	49	31			50%	45	NA	29.98	1012.3			
09	02:53	SE 7	10.00	Fair	CLR	50	32			50%	47	NA	29.98	1012.4			
09	01:53	SE 6	10.00	Fair	CLR	51	32			48%	NA	NA	29.98	1012.3			
09	00:53	SE 5	10.00	Fair	CLR	52	33			49%	NA	NA	29.98	1012.3			
08	23:53	S 5	10.00	Fair	CLR	55	32			42%	NA	NA	29.98	1012.3			
08	22:53	S 5	10.00	Fair	CLR	57	31	75	57	37%	NA	NA	29.98	1012.5			
08	21:53	S 6	10.00	Fair	CLR	60	31			33%	NA	NA	29.98	1012.4			
08	20:53	N 5	10.00	Fair	CLR	66	28			24%	NA	NA	29.96	1011.9			
08	19:53	NW 3	10.00	Fair	CLR	67	28			23%	NA	NA	29.95	1011.7			
08	18:53	NW 7	10.00	Fair	CLR	70	28			21%	NA	NA	29.95	1011.6			
08	17:53	NW 13	10.00	Fair	CLR	73	27			18%	NA	NA	29.94	1011.2			
08	16:53	NW 15	10.00	Fair	CLR	75	27	77	68	17%	NA	NA	29.93	1010.7			
08	15:53	NW 13 G 21	10.00	Fair	CLR	76	28			17%	NA	76	29.94	1010.7			
08	14:53	N 12 G 20	10.00	Fair	CLR	76	28			17%	NA	76	29.95	1011.0			
08	13:53	N 13 G 22	10.00	Fair	CLR	76	29			18%	NA	76	29.97	1011.8			
08	12:53	Calm	10.00	Fair	CLR	76	31			19%	NA	76	30.00	1012.4			
08	11:53	N 8	10.00	Fair	CLR	73	35			25%	NA	NA	30.03	1013.8			
08	10:53	NW 5	10.00	Fair	CLR	69	33	69	48	26%	NA	NA	30.05	1014.3			
08	09:53	Calm	10.00	Fair	CLR	64	35			34%	NA	NA	30.06	1014.8			
08	08:53	S 3	10.00	Fair	CLR	57	36			45%	NA	NA	30.07	1015.4			
08	07:53	S 6	10.00	Fair	CLR	52	35			53%	NA	NA	30.06	1015.4			
08	06:53	SE 7	10.00	Fair	CLR	48	35			61%	45	NA	30.04	1014.8			
08	05:53	SE 7	10.00	Fair	CLR	49	35			59%	46	NA	30.03	1014.4			
08	04:53	S 6	10.00	Fair	CLR	50	35	65	50	57%	48	NA	30.02	1013.9			
08	03:53	SE 6	10.00	Fair	CLR	53	34			48%	NA	NA	30.02	1013.7			
08	02:53	SE 8	10.00	Fair	CLR	53	34			48%	NA	NA	30.02	1013.7			
08	01:53	S 8	10.00	Fair	CLR	54	35			49%	NA	NA	30.03	1013.9			
08	00:53	SW 7	10.00	Fair	CLR	59	33			38%	NA	NA	30.03	1013.8			
07	23:53	S 5	10.00	Fair	CLR	61	34			36%	NA	NA	30.03	1013.7			

07	22:53	SE 7	10.00	Fair	CLR	66	34	76	66	30%	NA	NA	30.04	1013.7
07	21:53	Calm	10.00	Overcast	FEW049 BKN075 OVC100	69	33			26%	NA	NA	30.03	1013.5
07	20:53	SW 8	10.00	Mostly Cloudy	BKN110	69	32			25%	NA	NA	30.01	1013.2
07	19:53	SW 14	10.00	Fair	CLR	70	30			23%	NA	NA	30.01	1013.2
07	18:53	SW 9	10.00	A Few Clouds	FEW110	73	26			17%	NA	NA	29.98	1012.2
07	17:53	S 14 G 32	10.00	Fair	CLR	74	22			14%	NA	NA	29.97	1011.7
07	16:53	Calm	10.00	Fair	CLR	76	25	79	71	15%	NA	76	29.96	1011.1
07	15:53	NA	10.00	A Few Clouds	FEW110	77	29			17%	NA	77	29.97	1011.3
07	14:53	Vrbl 5	10.00	Fair	CLR	77	28			16%	NA	77	29.97	1011.4
07	13:53	SW 10 G 17	10.00	Fair	CLR	77	29			17%	NA	77	30.00	1012.2
07	12:53	E 6	10.00	Fair	CLR	74	29			19%	NA	NA	30.03	1013.6
07	11:53	SE 14 G 22	10.00	Fair	CLR	75	32			21%	NA	NA	30.06	1014.5
07	10:53	S 13	10.00	Fair	CLR	72	32	72	53	23%	NA	NA	30.08	1015.3
07	09:53	SE 20	10.00	Fair	CLR	67	30			25%	NA	NA	30.09	1015.9
07	08:53	SE 12	10.00	Fair	CLR	63	33			33%	NA	NA	30.10	1016.1
07	07:53	SE 8	10.00	Fair	CLR	58	32			38%	NA	NA	30.09	1016.1
07	06:53	SE 8	10.00	Fair	CLR	53	30			41%	NA	NA	30.08	1015.8
07	05:53	SE 12	10.00	Fair	CLR	56	29			36%	NA	NA	30.07	1015.4
07	04:53	SE 16	10.00	Fair	CLR	59	28	64	57	31%	NA	NA	30.06	1014.7
07	03:53	E 10	10.00	Fair	CLR	59	29			32%	NA	NA	30.05	1014.3
07	02:53	SE 13	10.00	Fair	CLR	60	29			31%	NA	NA	30.07	1014.8
07	01:53	SE 12	10.00	Fair	CLR	60	29			31%	NA	NA	30.08	1015.3
07	00:53	E 9	10.00	Fair	CLR	59	30			33%	NA	NA	30.08	1015.4
06	23:53	E 7	10.00	Fair	CLR	61	28			29%	NA	NA	30.08	1015.6
06	22:53	Calm	10.00	Fair	CLR	64	28	76	64	26%	NA	NA	30.09	1015.8
06	21:53	E 12	10.00	Fair	CLR	65	28			25%	NA	NA	30.08	1015.7
06	20:53	E 10	10.00	Fair	CLR	67	28			23%	NA	NA	30.07	1015.7
06	19:53	E 8	10.00	Fair	CLR	67	27			22%	NA	NA	30.07	1015.7
06	18:53	NE 10	10.00	Fair	CLR	70	26			19%	NA	NA	30.04	1014.8
06	17:53	E 9	10.00	Fair	CLR	73	25			17%	NA	NA	30.03	1014.3
06	16:53	E 15	10.00	Fair	CLR	76	24	77	67	14%	NA	76	30.02	1013.8
06	15:53	E 14 G 24	10.00	Fair	CLR	77	26			15%	NA	76	30.03	1014.0
06	14:53	E 20 G 29	10.00	Fair	CLR	75	23			14%	NA	NA	30.04	1014.4
06	13:53	E 21 G 30	10.00	Fair and Breezy	CLR	74	22			14%	NA	NA	30.07	1015.3
06	12:53	E 25 G 33	10.00	Fair and Breezy	CLR	72	20			14%	NA	NA	30.10	1016.5
06	11:53		10.00		CLR	70	19			14%	NA	NA	30.14	1017.9

		SE 31 G 40		Fair and Windy													
06	10:53	SE 29 G 39	10.00	Fair and Windy	CLR	67	17	67	48	15%	NA	NA	30.15	1018.4			
06	09:53	NE 8	10.00	Fair	CLR	63	19			18%	NA	NA	30.17	1019.3			
06	08:53	SE 5	10.00	Fair	CLR	57	20			24%	NA	NA	30.18	1019.8			
06	07:53	SE 8	10.00	Fair	CLR	51	21			31%	NA	NA	30.18	1019.9			
Date	Time (mst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Air	Dwpt	Max.	Min.	Relative Humidity	Wind Chill (°F)	Heat Index (°F)	altimeter (in.)	sea level (mb)	1 hr	3 hr	6 hr
						Temperature (°F)		6 hour					Pressure		Precipitation (in.)		

National Weather Service
Southern Region Headquarters
Fort Worth, Texas
Disclaimer

Back to previous page

Last Modified: Febuary, 7 2012
Privacy Policy