AIR CP_106597875_CP_20171016_Investigation_1415945_ **Texas Commission on Environmental Quality Investigation Report**

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Customer: voestalpine Texas LLC Customer Number: CN604261545

Regulated Entity Name: LA QUINTA PLANT Regulated Entity Number: RN106597875

Investigation	# 1415945	Incident Numbers	
		258138	258144
		258230	258165
		258226	258283
		258166	258034
		258238	258202
		258245	258285
		258031	258243
		258039	258158
		258142	258248
		257967	258027
		258146	258169
		258160	258156
		258170	258263
		258171	258147
		258172	258140
		258023	258232
		258229	258143
		258149	258173
		258162	258174
		258201	258176
		258244	258177
		258250	258251
		258242	258012
		258235	258150
		258141	258264
Investigator:	SUSAN HOELSCHER	Site Classification	PERMIT BY RUI

JLE PREVENTION OF SIGNIFICANT **DETERIORATION** GREENHOUSE GAS PSD

CASE-BY-CASE

Conducted: 05/16/2017 -- 10/16/2017

NAIC Code: 331110 NAIC Code: 331111 SIC Code: 3312

Program(s): AIR NEW SOURCE PERMITS

Investigation Type: Compliance Investigation

Location: FROM CORPUS CHRISTI TAKE US-181N ONTO FM RD 136 AND GO APPROX 1.0 MI GO R ONTO LA QUINTA RD/PVT RD 87A AND THE SITE IS APPROX 2.0 MI DOWN ON R. IT IS BOUNDED ON THE E BY LA QUINTA RD AND THE S BY CORPUS

CHRISTI BAY

Additional ID(s):

GHGPSDTX43 PSDTX1344M1 108113

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147082

Address:,

Local Unit: REGION 14 - CORPUS CHRISTI

Activity Type(s):

AIRCOMPL - AIR CMPL - AIR

COMPLAINT INV

Principal(s):

Role

Name

RESPONDENT Referred from Principal VOESTALPINE TEXAS LLC

CITY OF PORTLAND

Contact(s):

Role	Title	Name	Phone	
REGULATED ENTITY CONTACT	PROCESS WATER COORDINATOR/ENVI RONMENTAL SPECIALIST	MR DOMINICK HERNANDEZ	Work	(361) 704-9000
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MS Shannon Parham	Cell Fax Work	(361) 229-2865 (361) 704-9090 (361) 704-9000
REGULATED ENTITY CONTACT	CHIEF TECHNICAL OFFICER	HELMUT SCHWARZ	Cell Fax Work	(361) 229-0760 (361) 704-9090 (361) 704-9000
PARTICIPATED IN	ATTORNEY AT LAW, OUTSIDE COUNSEL	MIKE CHERNEKOFF	Cell Fax Phone	(832) 260-5740 (504) 589-8264 (713) 437-1827
PARTICIPATED IN	ATTORNEY AT LAW, OUTSIDE COUNSEL	MS LARA PRINGLE	Work Fax	(713) 437-1831 (713) 437-1924
REGULATED ENTITY CONTACT	HEAD OF SAFETY, SECURITY & EMERGENCY	TIM VANLANDINGHAM	Work Cell Fax	(361) 704-9000 (361) 800-1669 (361) 704-9090
PARTICIPATED IN	STAFF ATTORNEY	MR JESS ROBINSON	Phone	(512) 239-0455

Other Staff Member(s):

Investigator

Investigator

Role Name Investigator ASHLEY FUQUA Investigator MICHAEL RIFF Investigator THOMAS HANEY QA Reviewer CYNTHIA SMITH Supervisor KELLY RUBLE Investigator JESSICA FOX Investigator CHRISTOPHER REZENDES Investigator TRAVIS PRATER Investigator MEAGAN COOPER Investigator **COREY BURKE** Investigator RICHARD HEITZENRATER Investigator RENAE DIGUARDI Investigator ANDREW KISS Investigator KAREN BRIDGES Investigator ROBERT LINDSAY KENDRA BERNHAGEN Investigator Investigator **BLAS RIZZO**

Associated Check List

MARIA SPARKS

CYNTHIA SMITH

Checklist Name	Unit Name
AIR COMPLAINT INVESTIGATION	July 13, 2017
AIR COMPLAINT INVESTIGATION	June 8, 2017
AIR COMPLAINT INVESTIGATION	June 15, 2017
AIR COMPLAINT INVESTIGATION	May 24, 2017 Team 2
AIR COMPLAINT INVESTIGATION	May 26, 2017
AIR COMPLAINT INVESTIGATION	May 18, 2017 Team 2
AIR COMPLAINT INVESTIGATION	May 19, 2017 Team 1
AIR COMPLAINT INVESTIGATION	May 18, 2017 Team 1
AIR COMPLAINT INVESTIGATION	June 30, 2017
AIR COMPLAINT INVESTIGATION	June 5, 2017
AIR COMPLAINT INVESTIGATION	May 17, 2017
AIR COMPLAINT INVESTIGATION	May 23, 2017 Team 1
AIR COMPLAINT INVESTIGATION	May 30, 2017
AIR COMPLAINT INVESTIGATION	June 13, 2017
AIR COMPLAINT INVESTIGATION	June 23, 2017
AIR COMPLAINT INVESTIGATION	October 16, 2017
AIR COMPLAINT INVESTIGATION	May 23, 2017 Team 2
AIR COMPLAINT INVESTIGATION	June 2, 2017
AIR COMPLAINT INVESTIGATION	May 16, 2017
AIR COMPLAINT INVESTIGATION	May 19, 2017 Team 2
AIR COMPLAINT INVESTIGATION	May 25, 2017
AIR COMPLAINT INVESTIGATION	May 23, 2017 Team 3
AIR COMPLAINT INVESTIGATION	July 19, 2017
AIR COMPLAINT INVESTIGATION	May 19, 2017 Team 3
AIR COMPLAINT INVESTIGATION	May 20, 2017
AIR COMPLAINT INVESTIGATION	September 8, 2017
AIR INVESTIGATION - EQUIPMENT	1415945
MONITORING AND SAMPLING revised 06/2013	
AIR COMPLAINT INVESTIGATION	May 24, 2017 Team 1

Investigation Comments:

I. INTRODUCTION

Due to database limitations, three investigations, TCEQ Investigation Nos. 1415945 (Citizen 1-50), 1430244 (Citizen 51-100), and 1430249 (Citizen 101-141), were created to associate all incidents. TCEQ Investigation Nos. 1430244 and 1430249 reference TCEQ Investigation 1415945.

Note: Throughout the investigation report and attachments, iron oxide, iron ore, metal particles, and metallic particles are used interchangeably.

INTRODUCTION:

The Texas Commission on Environmental Quality (TCEQ) Corpus Christi Region 14 (R14) Office, Air Section, conducts investigations regarding air quality. On May 16, 2017 through October 13, 2017, 141 complaints (Citizens 1-141) from citizens of the Portland, Texas community were received at the TCEQ R14 Office. The citizens alleged metallic particles on their property and vehicles from operations at Voestalpine Texas LLC-La Quinta Plant (Voestalpine). Voestalpine is located at 2800 Kay Bailey Hutchison Road in Portland, San Patricio County, Texas. Refer to Attachment 1 for a list of all the complaint incidents received during this investigation. The list includes citizen number, incident number, date received, investigation date, and the investigation number associated to each incident number.

In response to the citizens' concerns, TCEQ R14 Environmental Investigators (EIs) conducted onsite complaint investigations (AIRCMPL) on 21 days from May 16, 2017 through October 16, 2017. The purpose of the AIRCMPL investigations was to determine if nuisance conditions were occurring, to identify the source upon detection, and to determine if operations were conducted in compliance with TCEQ rules and regulations. Note: The operations of other facilities in the surrounding area were reviewed as potential sources; however, they were not determined to be the source of the metallic particles.

The TCEQ R14 staff that conducted and participated in the investigations included Ms. Susan Hoelscher-Air Section EI, Ms. Ashley (Scott) Fuqua-Air Section EI, Mr. Kelly Ruble-Air Section Manager, Mr. Mike Riff-Air Section EI, Ms. Cindy Smith-Air Section EI, Mr. Andrew Kiss-Air Section EI, Mr. Robert Lindsay-Air Section EI, Ms. Kendra Bernhagen-Waste Section EI, Ms. Karen Bridges-Waste Section EI, Mr. Christopher Rezendes-Intern, Mr. Travis Prater-Water Section Work Leader, Mr. Rich Heitzenrater-Waste Section EI, Ms. Nicola Cooper-Intern, Mr. Thomas Haney-Air Section EI, Mr. Corey Burke-Waste Section EI, Mr. Blas Rizzo-Water Section EI, Ms. Maria "Cece" Sparks-Air Section EI, Ms. Jessica Fox-Air Section EI, Ms. Renae Diguardi-Emergency Response Coordinator, Mr. Trent Pinion-Air Section EI, Ms. Susan Clewis-Regional Director, and Mr. Guadalupe "Sonny" Lopez-Air Section Work Leader. An additional TCEQ participant was Mr. Jess Robinson-Staff Attorney.

The contacts for Voestalpine included Ms. Shannon Parham-Environmental Manager, Mr. Dominick Hernandez-Process Water Coordinator/Environmental Specialist, Mr. Tim Vanlandingham-Head of Safety, Security & Emergency, Mr. Helmut Schwarz-Chief Technical Officer, Mr. Michael Chernekoff-Attorney at Law/Outside Counsel, and Ms. Lara Pringle-Attorney at Law/Outside Counsel.

DAILY NARRATIVE:

The daily narrative is outlined below by date. Tape lift samples were initially obtained at each residence. However, due to the number of complaints that were continuously received, the EIs began obtaining tape lift samples only if the particles could not be confirmed to have magnetic properties. Note: The citizens initially identified the magnetic properties of the particles located on their property. There were 28 tape lift samples initially collected with a total of 39 tape lift samples collected throughout the entire investigation. If the EIs could document the metallic particles at the citizen's residence without obtaining a tape lift sample, the citizen was noted as impacted by the metallic particles consistent with the metallic particles identified on the other citizens' residences.

The citizens' vehicles had a gritty, sandpaper feeling to touch and/or had an accumulation of metallic particles that were confirmed to have magnetic properties consistent with the metallic particles documented on the

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citizens' residences. It appeared that the metallic particles had penetrated the clear coat and paint coat which was causing rust spots to form on the citizens' vehicles. It was noted by the EIs and the citizens that there were two different colors of metallic particles, reddish and black, on their property, and the metallic particles varied in size by, what appeared to be, distance from the alleged source. The citizens were concerned of possible health effects of the metallic particles, and numerous citizens indicated noticeable health problems since the metallic particles had been noted on their property. The TCEQ Toxicology Division noted that the tape lift samples contained metallic particles less than 10 microns in size. Particles less than 10 microns in size can be inhaled into the respiratory tract and can cause health effects such as respiratory irritation and asthma exacerbation. The TCEQ does not have monitored levels (concentration data) of the metallic particles, so the TCEQ Toxicology Division cannot comment on the likelihood of health effects occurring from exposure to the particles. Many citizens documented the metallic particles in their pools, in their pets' water bowls, and on their children's outdoor play equipment. The citizens would be outdoors and/or children/pets would play outside, and they would get covered in the metallic particles on the grass and outdoor structures (e.g. black feet). The metallic particles were documented at citizens' residences located up to approximately three miles to the northwest, west, and southwest of Voestalpine. Southeast, east, and northeast winds would have impacted these areas. The prevailing wind direction is southeast; however, during the time period of this investigation there were numerous days when the wind direction was east and northeast. It should also be noted that there were numerous days over the time period of this investigation that the Portland community received rain/thunderstorms; however, the metallic particles were still documented on the citizens' property after the rain/thunderstorms. Refer to Attachment 2 for photographs obtained during the course of the investigation.

Note: All of the tape lift samples collected at the citizens' residences were compared to four reference samples, designated as Sample Nos. 1705011-009RS, 1705011-010RS, 1705011-011RS, and 1705011-012RS, obtained on May 17, 2017 from four of Voestalpine's outdoor stockpiles. The Laboratory Analysis Results of the reference samples, Request No. 1705011, are given in Attachment 3, and photographs of the reference sample locations are given in Attachment 4.

May 16, 2017

Two TCEQ teams responded to four complaints referred to the TCEQ R14 Office by the City of Portland, Texas. Ms. Hoelscher (Team 1) responded to two complaints (Citizen 1-2), and Ms. Hoelscher and Ms. Fuqua (Team 2) responded to two complaints (Citizen 3-4). At the time of the investigation, meteorological conditions consisted of southeast winds at 18 miles per hour (mph) with 30 mph wind gusts and an ambient air temperature of 79 degrees Fahrenheit.

Citizen 1-Incident No. 257967

Tape lift samples were obtained from the front house siding and a front window glass at Citizen 1's residence, designated as Sample Nos. 1705011-001 and 1705011-002, respectively. Citizen 1 also demonstrated the magnetic property of the metallic particles to the EI. The Laboratory Analysis Results of the tape lift samples, Request No. 1705011, are given in Attachment 3. The results indicated the following:

Sample No. 1705011-001 (lightly loaded) contained between 51 and 60% metal particles. The metal particles ranged in color from black to reddish. The color was consistent with all the field samples and reference samples. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample also contained between 31 and 40% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, yellow paint overspray, plant stellate hairs, and pollen. The energy dispersive spectroscopy (EDS) analysis of a metal particle indicated the primary peaks in the x-ray spectra of the metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705011-002 (lightly loaded) contained between 41 and 50% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 21 and 30% common clays and minerals and between 5 and 20% fungal spores. Other particles present in quantities less than 5% included plant stellate hairs, plant trichomes, pollen, and rubber dust. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

Citizen 2-Incident No. 258031

Tape lift samples were obtained from an outdoor light glass cover and a plastic storage box on the front porch at

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Citizen 2's residence, designated as Sample Nos. 1705011-003 and 1705011-004, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705011, are given in Attachment 3. The results indicated the following:

Sample No. 1705011-003 (lightly loaded) contained between 5 and 20% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample also contained between 31 and 40% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, plant stellate hairs, and pollen.

Sample No. 1705011-004 (moderately loaded) contained between 51 and 60% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 31 and 40% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, plant stellate hairs, and pollen. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

Citizen 3-Incident No. 258027

Tape lift samples were obtained from the front door window sill and a front window glass at Citizen 3's residence, designated as Sample Nos. 1705011-005 and 1705011-006, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705011, are given in Attachment 3. The results indicated the following:

Sample No. 1705011-005 (lightly loaded) contained between 61 and 71% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample also contained between 21 and 30% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, plant fibers, and pollen. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705011-006 (lightly loaded) contained between 61 and 70% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 5 and 20% common clays and minerals and between 5 and 20% plant fibers. Other particles present in quantities less than 5% included pollen. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

Citizen 4-Incident No. 258034

Tape lift samples were obtained from an outdoor light glass cover and a front window glass at Citizen 4's residence, designated as Sample Nos. 1705011-007 and 1705011-008, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705011, are given in Attachment 3. The results indicated the following:

Sample No. 1705011-007 (lightly loaded) contained between 21 and 30% metal particles. Metal particles (reddish) ranged in size from 1 to 700 microns. Metal particles (black) ranged in size from 5 to 300 microns. The sample also contained between 41 and 50% insect parts and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included pollen. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705011-008 (lightly loaded) contained over 80% metal particles. Metal particles (reddish) ranged in size from 1 to 700 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material and plant stellate hairs. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

May 17, 2017

Ms. Hoelscher conducted an onsite investigation at Voestalpine to obtain reference samples for comparison to the tape lift samples obtained at the citizens' residences. At the time of the investigation, meteorological conditions consisted of southeast winds at 9 mph with 17 mph wind gusts and an ambient air temperature of 78 degrees Fahrenheit.

Ms. Hoelscher met with Mr. Vanlandingham and discussed the complaint allegations while obtaining the bulk reference samples from the outside stockpiles. Mr. Vanlandingham demonstrated the magnetic property of the

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metal particles. It was noted that the reddish colored metal particles were unprocessed, and the black colored metal particles were processed. The reference samples were designated as Sample Nos. 1705011-009RS (remet pellets), 1705011-010RS (remet fines), 1705011-011RS (fines unprocessed pellets), and 1705011-012RS (HBI (hot briquette iron) fines). Note: Remet is the off-specification product produced during plant start-up or process upset. The Laboratory Analysis Results of the reference samples, Request No. 1705011, are given in Attachment 3, and photographs of the reference sample locations are given in Attachment 4. The results indicated the following:

Sample No. 1705011-009RS (bulk sample) contained over 80% metal particles. The remet pellets consisted of large black metal particles over 1 centimeter in diameter. The EDS analysis of the remet pellets (metal particle) indicated the primary peaks in the x-ray spectrum were oxygen and iron.

Sample No. 1705011-010RS (bulk sample) contained over 80% metal particles. The remet fines consisted of metal particles that varied in color from black to reddish. Metal particles (reddish) ranged in size from 1 to 5000 microns. Metal particles (black) ranged in size from 5 to 400 microns. Other particles present in quantities less than 5% included common clays and minerals. The EDS analysis of the remet fines particle (metal particle) indicated the primary peaks in the x-ray spectrum were oxygen and iron. The EDS analysis of another remet fines particle indicated the primary peaks in the x-ray spectrum were oxygen, calcium, and iron.

Sample No. 1705011-011RS (bulk sample) contained over 80% metal particles. The unprocessed fines pellets consisted of metal particles that varied in color from black to reddish. Metal particles (reddish) ranged in size from 1 to 5000 microns. Metal particles (black) ranged in size from 5 to 1000 microns. The EDS analysis of the unprocessed fines pellets (metal particle) indicated the primary peaks in the x-ray spectrum were oxygen and iron.

Sample No. 1705011-012RS (bulk sample) contained over 80% metal particles. The HBI fines consisted of metal particles that varied in color from black to reddish. Metal particles (reddish) ranged in size from 1 to 5000 microns. Metal particles (black) ranged in size from 5 to 400 microns. The EDS analysis of the HBI fines (metal particle) indicated the primary peaks in the x-ray spectrum were oxygen and iron.

Mr. Vanlandingham provided a process description and the Safety Data Sheets (SDS) for the iron ore pellets and HBI via email. See Attachment 5 for the process description and SDSs.

Voestalpine also analyzed samples of three of the stockpiles (HBI Fines, Pellet Fines, Remet Fines), four offsite locations (A, B, C, D) (three citizens' residences; one residence was sampled twice), and one sample (plastic bag) collected by a citizen and submitted to Voelstapine. The samples were analyzed for the presence of metal elements. The Voestalpine Texas Site Dust Health Risk Analysis is referenced in Attachment 6 and is located in the TCEQ R14 Office confidential files.

Ms. Fuqua responded to three complaints (Citizen 5-7) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 14 mph with 25 mph wind gusts and an ambient air temperature of 79 degrees Fahrenheit.

Citizen 5-Incident No. 258023

Tape lift samples were obtained from the back door window glass and the glass tabletop (cleaned three days prior) on the back patio at Citizen 5's residence, designated as Sample Nos. 1705012-001 and 1705012-002, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705012, are given in Attachment 7. The results indicated the following:

Sample No. 1705012-001 (lightly loaded) contained between 5 and 20% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 20 to 120 microns. Metal particles were consistent in appearance with all other field samples in this request (1705012) and with reference samples 1705011-010RS, -011RS, and -012RS. The sample also contained between 61 and 70% common clays and minerals, between 5 and 20% fungal spores, and between 5 and 20% pollen. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705012-002 (lightly loaded) contained less than 5% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 5 to 40 microns. The sample also contained between 71 and 80% common clays and minerals, between 5 and 20% pollen, and between 5 and 20% plant material. Other particles present in quantities less than 5% included fungal spores, plant trichomes, and starch grains. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

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Citizen 6-Incident No. 258012

Tape lift samples were obtained from the glass tabletop (cleaned three days prior) on the back deck and a front window glass at Citizen 6's residence, designated as Sample Nos. 1705012-003 and 1705012-004, respectively. It was also noted that it appeared the metallic particles had settled in the bottom of Citizen 6's pool. The Laboratory Analysis Results of the tape lift samples, Request No. 1705012, are given in Attachment 7. The results indicated the following:

Sample No. 1705012-003 (heavily loaded) contained between 41 and 50% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 120 microns. The sample also contained between 41 and 50% common clays and minerals. Other particles present in quantities less than 5% included fungal material, plant trichomes, and pollen. The x-ray spectra of metal particles were consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705012-004 (moderately loaded) contained between 21 and 30% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 to 90 microns. The sample also contained between 51 and 60% fungal material and between 21 and 30% common clays and minerals. Other particles present in quantities less than 5% included fungal spores and pollen. The x-ray spectra of metal particles were consistent with the reference samples submitted in Request No. 1705011.

Citizen 7-Incident No. 258039

Tape lift samples were obtained from the backyard pool ladder and a front window glass at Citizen 7's residence, designated as Sample Nos. 1705012-005 and 1705012-006, respectively. The metallic particles had settled on the bottom of the pool, and Citizen 7 stated that the pool is vacuumed daily. The Laboratory Analysis Results of the tape lift samples, Request No. 1705012, are given in Attachment 7. The results indicated the following:

Sample No. 1705012-005 (heavily loaded) contained between 71 and 80% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 130 microns. The sample also contained between 5 and 20% common clays and minerals and between 5 and 20% fungal material. Other particles present in quantities less than 5% included burned vegetation, plant trichomes, pollen, and starch grains. The x-ray spectra of metal particles was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705012-006 (lightly loaded) contained between 31 and 40% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 to 100 microns. The sample also contained between 41 and 50% fungal material, between 5 and 20% common clays and minerals, and between 5 and 20% fungal spores. Other particles present in quantities less than 5% included pollen and plant material. The x-ray spectra of metal particles was consistent with the reference samples submitted in Request No. 1705011.

May 18, 2017

Two TCEQ teams responded, concurrently, to 12 complaints. Ms. Fuqua (Team 1) responded to five complaints (Citizen 8-12), and Ms. Hoelscher and Mr. Ruble (Team 2) responded to seven complaints (Citizen 13-19). At the time of the investigation, meteorological conditions consisted of southeast winds at 15 mph with 25 mph wind gusts and an ambient air temperature of 82 degrees Fahrenheit.

Citizen 8-Incident No. 258158

Tape lift samples were obtained from a front window glass and the backyard pool ledge at Citizen 8's residence, designated as Sample Nos. 1705014-006 and 1705014-007, respectively. It was also noted that it appeared the metallic particles had settled in the bottom of Citizen 8's pool. The Laboratory Analysis Results of the tape lift samples, Request No. 1705014, are given in Attachment 8. The results indicated the following:

Sample No. 1705014-006 (heavily loaded) contained between 5 and 20% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 100 microns. The sample also contained between 31 and 40% fungal spores, between 21 and 30% common clays and minerals, and between 21 and 30% plant material. Other particles present in quantities less than 5% included plant fibers, plant stellate hairs, plant trichomes, and pollen. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705014-007 (heavily loaded) contained less than 5% metal particles. The metal particles ranged in

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color from black to reddish and ranged in size from 1 to 300 microns. The sample also contained over 80% common clays and minerals and between 5 and 20% weathered paint. Other particles present in quantities less than 5% included plant fibers. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Citizen 9-Incident No. 258143

Tape lift samples were obtained from the front window glass and the garage door siding at Citizen 9's residence, designated as Sample Nos. 1705013-007 and 1705014-001, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705013 and 1705014, are given in Attachment 9 and 8, respectively. The results indicated the following:

Sample No. 1705013-007 (lightly loaded) contained less than 5% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 40 microns. The sample also contained between 61 and 70% fungal spores and between 21 and 30% paper fibers. Other particles present in quantities less than 5% included plant stellate hairs and plant material. The x-ray spectra of metal particles was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705014-001 (lightly loaded) contained less than 5% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 100 microns. The sample also contained over 80% fungal spores and between 5 and 20% paper fibers. Other particles present in quantities less than 5% included common clays and minerals and rubber dust. The x-ray spectra of metal particles were consistent with the reference samples submitted in Request No. 1705011.

Citizen 10-Incident No. 258147

Tape lift samples were obtained from the front window glass and the front door at Citizen 10's residence, designated as Sample Nos. 1705014-002 and 1705014-003, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705014, are given in Attachment 8. The results indicated the following:

Sample No. 1705014-002 (moderately loaded) contained between 5 and 20% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 300 microns. The sample also contained between 21 and 30% common clays and minerals, between 21 and 30% fungal spores, and between 21 and 30% plant fibers. Other particles present in quantities less than 5% included plant stellate hairs, plant trichomes, pollen, starch grains, and rubber dust. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705014-003 (lightly loaded) contained less than 5% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 300 microns. The sample contained between 31 and 40% plant material, between 21 and 30% common clays and minerals, between 5 and 20% fungal spores, and between 5 and 20% plant stellate hairs. Other particles present in quantities less than 5% included animal hair, plant trichomes, pollen, and rubber dust. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Citizen 11-Incident No. 258160

Tape lift samples were obtained from the front door window glass and front window screen frame at Citizen 11's residence, designated as Sample Nos. 1705014-004 and 1705014-005, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705014, are given in Attachment 8. The results indicated the following:

Sample No. 1705014-004 (lightly loaded) contained less than 5% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 40 microns. The sample contained between 41 and 50% common clays and minerals, between 41 and 50% fungal spores, and between 5 and 20% plant fibers. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705014-005 (lightly loaded) contained between 5 and 20% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 120 microns. The sample contained between 41 and 50% common clays and minerals and between 21 and 30% plant material. Other particles present in quantities less than 5% included plant fibers, plant stellate hairs, plant trichomes, and pollen. The x-ray spectra of the metal particles were consistent with the reference samples submitted in Request No. 1705011.

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Citizen 12-Incident No. 258146

Samples of metallic particles collected on the back window sill of Citizen 12's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 13-Incident No. 258172

A tape lift sample was obtained from the outside metal window sill at Citizen 13's workplace, designated as Sample No. 1705013-001. The Laboratory Analysis Results of the tape lift sample, Request No. 1705013, are given in Attachment 9. The results indicated the following:

Sample No. 1705013-001 (lightly loaded) contained over 80% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 200 microns. The sample also contained between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, plant stellate hairs, pollen, and rubber dust. The x-ray spectra of the metal particles was consistent with the reference samples submitted in Request No. 1705011.

Citizen 14-Incident No. 258138

Tape lift samples were obtained from an outdoor light glass cover, a front window sill, and the trunk of a car at Citizen 14's residence, designated as Sample Nos. 1705013-002, 1705013-003, and 1705013-004, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705013, are given in Attachment 9. The results indicated the following:

Sample No. 1705013-002 (heavily loaded) contained less than 5% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 120 microns. The sample also contained over 80% white weathered paint. Other particles present in quantities less than 5% included common clays and minerals. The x-ray spectra of the metal particles was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705013-003 (heavily loaded) contained between 61 and 70% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 100 microns. The sample also contained between 21 and 30% common clays and minerals and between 5 and 20% weathered paint. Other particles present in quantities less than 5% included burned vegetation, fungal spores, plant stellate hairs, and pollen. The x-ray spectra of the metal particles was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705013-004 (lightly loaded) contained between 61 and 70% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 200 microns. The sample also contained between 21 and 30% common clays and minerals. Other particles present in quantities less than 5% included plant fibers, plant trichomes, pollen, and rubber dust. The x-ray spectra of the metal particles was consistent with the reference samples submitted in Request No. 1705011.

Citizen 15-Incident No. 258149

Samples of metallic particles collected on a front window sill of Citizen 15's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 16-Incident No. 258170

Tape lift samples were obtained from the front window sill and the front door at Citizen 16's residence, designated as Sample Nos. 1705013-005 and 1705013-006, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705013, are given in Attachment 9. The results indicated the following:

Sample No. 1705013-005 (moderately loaded) contained between 41 and 50% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 200 microns. The sample also contained between 31 and 40% weathered paint and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included paint overspray, plant stellate hairs, and pollen. The x-ray spectra of the metal particles was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705013-006 (lightly loaded) contained between 41 and 50% metal particles. The metal particles ranged in color from black to reddish and ranged in size from 1 to 120 microns. The sample also contained between 51 and 60% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, and plant fibers. The x-ray spectra of the metal particles was consistent with the reference samples submitted in Request No. 1705011.

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Citizen 17-Incident No. 258140

Samples of metallic particles collected on a BBQ pit located in the backyard and a back window sill of Citizen 17's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 18-Incident No. 258165

Samples of metallic particles collected on a front window sill of Citizen 18's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. The metal particles were also confirmed on the wheel cover of a trailer parked in the front driveway that is only used about once a month.

Citizen 19-Incident No. 258141

Samples of metallic particles collected on a piece of angle iron in the backyard of Citizen 19's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. Citizen 19 stated that the angle iron had only been in the backyard for about a week. It was also noted that Citizen 19's dog had also been sick (toxins) starting two days prior and was slowly recovering.

May 19, 2017

Three TCEQ teams responded, concurrently, to 36 complaints. Ms. Hoelscher and Mr. Kiss (Team 1) responded to 18 complaints (Citizen 20-37), Mr. Riff and Ms. Smith (Team 2) responded to nine complaints (Citizen 38-46), and Ms. Fuqua and Mr. Lindsay (Team 3) responded to nine complaints (Citizen 47-55). Team 1 was accompanied by Team 2 for the first two complaints (Citizen 20 and 21). At the time of the investigation, meteorological conditions consisted of southeast winds at 17 mph with 30 mph wind gusts and an ambient air temperature of 82 degrees Fahrenheit.

Citizen 20-Incident No. 258144

Samples of metallic particles collected off of a junction box on the side of Citizen 20's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 21-Incident No. 258162

Samples of metallic particles collected on a front window sill of Citizen 21's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 22-Incident No. 258169

Samples of metallic particles collected on a front window ledge of Citizen 22's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 23-Incident No. 258176

Team 1 attempted to contact Citizen 23; however, Team 1 was unable to reach Citizen 23 that day (May 19, 2017). See the May 20, 2017 section below for more information.

Citizen 24-Incident No. 258201

Samples of metallic particles collected on a front window ledge of Citizen 24's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 25-Incident No. 258243

Samples of metallic particles collected on a front window sill of Citizen 25's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 26-Incident No. 258245

Samples of metallic particles collected on a front window sill of Citizen 26's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. Citizen 26 indicated that the metallic particles were also on the grass blades in the front yard.

Citizen 27-Incident No. 258251

Samples of metallic particles collected on a front window glass of Citizen 27's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

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Citizen 28-Incident No. 258235

Tape lift samples were obtained from the front window glass and an outdoor light glass cover at Citizen 28's residence, designated as Sample Nos. 1705016-003 and 1705016-004, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705016, are given in Attachment 10. The results indicated the following:

Sample No. 1705016-003 (lightly loaded) contained between 31 and 40% common clays and minerals, between 31 and 40% fungal material, between 5 and 20% plant fibers, and between 5 and 20% plant material. Other particles present in quantities less than 5% included pollen.

Sample No. 1705016-004 (moderately loaded) contained less than 5% metal particles. Only two metal particles were found on the subsample. The metal particles ranged in color from reddish to black and ranged in size from 2 to 40 microns. The sample also contained between 61 and 70% fungal spores, between 21 and 30% common clays and minerals, and between 5 and 20% plant fibers. Other particles present in quantities less than 5% included a spider web. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Citizen 29-Incident No. 258250

Tape lift samples were obtained from a front window glass and an outdoor light plastic cover at Citizen 29's residence, designated as Sample Nos. 1705016-001 and 1705016-002, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705016, are given in Attachment 10. The results indicated the following:

Sample No. 1705016-001 (lightly loaded) contained between 5 and 20% metal particles. Only three metal particles were found on the subsample. Metal particles ranged in color from black to reddish and ranged in size from 5 to 150 microns. Metal particles were consistent in appearance with metal particles identified in other field samples in this request (1705016) and with reference samples 1705011-010RS, -011RS, and -012RS. The sample also contained between 31 and 40% common clays and minerals, between 31 and 40% fungal spores, and between 5 and 20% plant stellate hairs. Other particles present in quantities less than 5% included plant fibers, pollen, and rubber dust. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1705016-002 (heavily loaded) contained between 5 and 20% metal particles. Only one metal particle was found on the subsample. This metal particle was colored black with a reddish edge and was 60 microns. The sample also contained over 80% fungal spores. Other particles present in quantities less than 5% included common clays and minerals, white paint overspray, plant fibers, and plant stellate hairs.

Citizen 30-Incident No. 258238

Samples of metallic particles collected on a front window ledge of Citizen 30's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 31-Incident No. 258232

Samples of metallic particles collected on a front window sill of Citizen 31's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 32-Incident No. 258248

Samples of metallic particles collected on a front window screen framework of Citizen 32's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 33-Incident No. 258242

Samples of metallic particles collected on a front window sill of Citizen 33's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 34-Incident No. 258244

Samples of metallic particles collected on a front window sill of Citizen 34's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

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Citizen 35-Incident No. 258264

Samples of metallic particles collected on a front window ledge of Citizen 35's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. See the May 24, 2017 section below for more information.

Citizen 36-Incident No. 258283

Team 1 attempted to contact Citizen 36; however, Team 1 was unable to reach Citizen 36 that day (May 19, 2017). See the May 20, 2017 and May 23, 2017 sections below for more information.

Citizen 37-Incident No. 258285

Samples of metallic particles collected on a front window sill of Citizen 37's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 38-Incident No. 258166

Samples of metallic particles collected on a glass window glass pane on the side of Citizen 38's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 39-Incident No. 258173

Samples of metallic particles collected on a front window ledge of Citizen 39's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 40-Incident No. 258202

Samples of metallic particles collected on a BBQ pit at Citizen 40's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 41-Incident No. 258174

Samples of metallic particles collected on a front window ledge of Citizen 41's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 42-Incident No. 258177

Samples of metallic particles collected on a front window ledge of Citizen 42's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 43-Incident No. 258299

Samples of metallic particles collected on a front window ledge of Citizen 43's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

On May 23, 2017, Citizen 43 submitted citizen collected evidence (CCE) (video) indicating that the metallic particles were inside their residence in the kitchen air conditioner (AC) vent.

On July 14, 2017, Citizen 43 submitted CCE (videos) indicating the ongoing release/accumulation of the metallic particles. See below for a timeline of events from the CCE indicating the ongoing release/accumulation of the metallic particles.

-June 7, 2017: Stainless steel dog bowl was cleaned/scrubbed, filled with fresh water, and left in the middle of the backyard from 6 am until 6 pm. After 12 hours, Citizen 43 confirmed the magnetic property of the metallic particles accumulated in the dog bowl.

-June 8, 2017: Citizen 43's vehicle had a complete detail.

-June 15, 2017: Citizen 43 confirmed the magnetic property of the metallic particles accumulated on the vehicle which had been detailed a week before.

-June 16, 2071: Citizen 43's vehicle had a complete detail.

-June 22, 2017: Citizen 43 confirmed the magnetic property of the metallic particles accumulated on the vehicle which had been detailed the Friday before.

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-June 24, 2017: Citizen 43 power washed the front and back of the house including doors, windows, siding, sidewalks, patio, etc. The exterior front alcove, front door, and front sidewalk were power washed twice; however, metallic particles with a magnetic property were still confirmed on the front sidewalk and front siding after the double wash.

-July 12, 2017: After power washing on June 24, 2017, an accumulation of metallic particles with a magnetic property were confirmed by Citizen 43 on a front window sill, a back patio window sill, and a back patio electrical box indicating an ongoing release.

Refer to Attachment 11 for snapshots of the CCE videos (representative sample) submitted indicating the impact and ongoing release of metallic particles. Note: The original CCE videos and affidavits are located in the TCEQ R14 Office confidential files.

Citizen 44-Incident No. 258226

Team 2 attempted to contact Citizen 44; however, Citizen 44 was out of town and there was limited access to the property. See the May 20, 2017 and May 23, 2017 sections below for more information.

Citizen 45-Incident No. 258230

Samples of metallic particles collected on a BBQ grill at Citizen 45's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 46-Incident No. 258263

Samples of metallic particles collected on a front window ledge of Citizen 46's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 47-Incident No. 258142

Samples of metallic particles collected on a patio table at Citizen 47's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 48-Incident No. 258156

Samples of metallic particles collected on a window of Citizen 48's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 49-Incident No. 258150

Samples of metallic particles collected on a window ledge of Citizen 49's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 50-Incident No. 258171

Samples of metallic particles collected on a window ledge of Citizen 50's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It also appeared that the metallic particles were settled in and around the pool.

Citizen 51-Incident No. 258227

Samples of metallic particles collected on a window sill, window ledge, and the garage door at Citizen 51's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 52-Incident No. 258167

Samples of metallic particles collected on a junction box near the front door, a window screen framework, a mini refrigerator, and a BBQ pit at Citizen 52's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 53-Incident No. 258200

Samples of metallic particles collected on a window ledge of Citizen 53's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It also appeared that metal particles had settled on the bottom of the pool.

Citizen 54-Incident No. 258203

Tape lift samples were obtained from a front window glass and the back garage door at Citizen 54's residence,

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designated as Sample Nos. 1705016-005 and 1705016-006, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1705016, are given in Attachment 9. The results indicated the following:

Sample No. 1705016-005 (moderately loaded) contained less than 5% metal particles. Only two metal particles were found on the subsamples. Metal particles ranged in color from reddish to black and ranged in size from 10 to 45 microns. The sample also contained between 71 and 80% common clays and minerals and between 21 and 30% fungal spores. Other particles present in quantities less than 5% included plant fibers, plant stellate hairs, pollen, and rubber dust.

Sample No. 1705016-006 (heavily loaded) contained less than 5% metal particles. Metal particles ranged in color from reddish to black and ranged in size from 40 to 80 microns. The sample also contained between 51 and 60% plant/wood fibers and between 31 and 40% common clays and minerals and between 5 and 20% fungal spores. Other particles present in quantities less than 5% included fungal spores, animal hair, white paint chips, white paint overspray, plant stellate hairs, pollen, and rubber dust. The x-ray spectra of metal particles were consistent with the reference samples submitted in Request No. 1705011.

Citizen 55-Incident No. 258223

Samples of metallic particles collected on a window sill of Citizen 55's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It also appeared that the metal particles were settled in the bottom of the pool.

May 20, 2017

Mr. Riff and Ms. Bernhagen responded to four dust complaints (Citizen 56-59) as well as the three citizens (Citizen 23, 36, 44) that were unable to be reached or had limited access to the property on the previous day (May 19, 2017). At the time of the investigation, meteorological conditions consisted of east winds at 12 mph with 20 mph wind gusts and an ambient air temperature of 83 degrees Fahrenheit.

Citizen 23-Incident No. 258176

Samples of metallic particles collected on a front window shutter of Citizen 23's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 36-Incident No. 258283

Based upon the response to the complaint, it was determined that the incorrect address had been noted for Citizen 36. Another attempt was made to contact Citizen 36 via phone; however, Citizen 36 was unable to be reached. See the May 19, 2017 and May 23, 2017 sections for more information.

Citizen 44-Incident No. 258226

Another attempt was made to contact Citizen 44; however, Citizen 44 was unable to be reached. See the May 19, 2017 and May 23, 2017 sections for more information.

Citizen 56-Incident No. 258420

Samples of metallic particles collected on a back window of Citizen 56's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 57-Incident No. 258308

Samples of metallic particles collected on a front window of Citizen 57's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 58-Incident No. 258309

Samples of metallic particles collected on a side window of Citizen 58's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 59-Incident No. 258287

Samples of metallic particles collected on a front window of Citizen 59's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

May 23, 2017

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Three TCEQ teams responded, concurrently, to 24 dust complaints as well as the two citizens (Citizen 36 and 44) that had been unable to be reached on the previous two days (May 19, 2017 and May 20, 2017). Ms. Hoelscher, Ms. Bridges, and Mr. Rezendes (Team 1) responded to nine complaints (Citizen 60-68), Ms. Fuqua, Mr. Prater, and Mr. Heitzenrater (Team 2) responded to eight complaints (Citizen 36, 44, 69-74), and Mr. Riff, Ms. Bernhagen, and Ms. Cooper (Team 3) responded to nine complaints (Citizen 75-83). At the time of the investigation, meteorological conditions consisted of northeast winds at 9 mph with 16 mph wind gusts and an ambient air temperature of 80 degrees Fahrenheit.

Citizen 36-Incident No. 258283

Note: Prior to the investigation, the TCEQ R14 Complaint Coordinator contacted Citizen 36 to obtain the correct address. Samples of metallic particles collected on the garage door and the trampoline (heavily loaded) at Citizen 36's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 44-Incident No. 258226

Samples of metallic particles collected on the outdoor grill and electric box in the backyard at Citizen 44's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 60-Incident No. 258415

Samples of metallic particles collected on a front window sill of Citizen 60's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 61-Incident No. 258282

Samples of metallic particles collected on a front window sill of Citizen 61's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 62-Incident No. 258199

Samples of metallic particles collected on a front window sill of Citizen 62's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 63-Incident No. 258413

Samples of metallic particles collected on a front window ledge of Citizen 63's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 64-Incident No. 258479

Samples of metallic particles collected on a front window ledge of Citizen 64's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 65-Incident No. 258480

Samples of metallic particles collected on a side window ledge and a front window screen framework of Citizen 65's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 66-Incident No. 258421

Samples of metallic particles collected on a front window sill of Citizen 66's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 67-Incident No. 258408

Samples of metallic particles collected on a back porch window sill of Citizen 67's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 68-Incident No. 258485

Samples of metallic particles collected on a front patio table and front window sill of Citizen 68's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 69-Incident No. 258405

Samples of metallic particles collected on the backyard air conditioning unit at Citizen 69's residence were

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confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 70-Incident No. 258470

Samples of metallic particles collected on a trash can at Citizen 70's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 71-Incident No. 258472

Samples of metallic particles collected on a front window of Citizen 71's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 72-Incident No. 258471

Samples of metallic particles collected on a front window sill located by the front door of Citizen 72's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 73-Incident No. 258473

Samples of metallic particles collected on a front window sill located by the front door of Citizen 73's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 74-Incident No. 258484

Samples of metallic particles collected on a front window ledge of Citizen 74's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 75-Incident No. 258418

Samples of metallic particles collected on a front window sill of Citizen 75's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 76-Incident No. 258423

Samples of metallic particles collected on a front window sill of Citizen 76's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 77-Incident No. 258424

Samples of metallic particles collected on a front window sill of Citizen 77's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 78-Incident No. 258475

Samples of metallic particles collected on a front window sill of Citizen 78's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 79-Incident No. 258474

Samples of metallic particles collected on the top of a (attached) black box by front door of Citizen 79's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 80-Incident No. 258476

Samples of metallic particles collected on a front window sill of Citizen 80's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 81-Incident No. 258477

Samples of metallic particles collected on a front window sill of Citizen 81's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 82-Incident No. 258468

Samples of metallic particles collected on a front door panel of Citizen 82's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 83-Incident No. 258482

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Samples of metallic particles collected on a front window sill of Citizen 83's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

May 24, 2017

Ms. Hoelscher and Ms. Bernhagen conducted an onsite investigation at Voestalpine to collect representative samples of the outdoor stockpiles for total metal analysis. At the time of the investigation, meteorological conditions consisted of north/northwest winds at 7 mph with 14 mph wind gusts and an ambient air temperature of 74 degrees Fahrenheit. Ms. Hoelscher and Ms. Bernhagen met with Ms. Parham and Mr. Hernandez and a brief process description was given prior to collecting samples. A total of 10 representative samples of the stockpiles were collected and designated as the following:

(1) Lab Sample ID HS17051351-01 (01-Remet Pile);

(2) Lab Sample ID HS17051351-02 (02-HBI Chips & Fines);

(3) Lab Sample ID HS17051351-03 (03-Remet/Fines/Iron Oxide Pellets);

(4) Lab Sample ID HS17051351-04 (04-HBI Fines);

(5) Lab Sample ID HS17051351-05 (05-Remet & HBI Fines);

(6) Lab Sample ID HS17051351-06 (06-Iron Oxide Fines);

(7) Lab Sample ID HS17051351-07 (07-Coated Iron Oxide Pellets);

(8) Lab Sample ID HS17051351-08 (08-Iron Oxide Pellets);

(9) Lab Sample ID HS17051351-09 (09-HBI Fines Cold Briquettes); and

(10) Lab Sample ID HS17051351-10 (010-HBI Fines).

The total metal lab results are given in Attachment 12, and photographs of the sampling locations are given in Attachment 13.

Two TCEQ teams responded, concurrently, to 17 complaints. Mr. Kiss and Mr. Haney (Team 1) responded to 11 complaints (Citizen 84-94), and Mr. Lindsay and Mr. Burke (Team 2) responded to six complaints (Citizen 95-100). Note: Citizen 35 was unaware that a TCEQ Team had spoken to Citizen 35's spouse on May 19, 2017 and had confirmed the metallic particles at Citizen 35's residence had magnetic properties; therefore, Team 1 also responded to Citizen 35's concerns on May 24, 2017. At the time of the investigation, meteorological conditions consisted of northwest winds at 6 mph with 14 mph wind gusts and an ambient air temperature of 82 degrees Fahrenheit.

Citizen 35-Incident No. 258264

Samples of metallic particles collected on a front window ledge of Citizen 35's residence were reconfirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. See the May 19, 2017 section above for more information.

Citizen 84-Incident No. 258557

Samples of metallic particles collected on a window ledge of Citizen 84's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 85-Incident No. 258590

Samples of metallic particles collected on window screen framework of Citizen 85's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 86-Incident No. 258595

Samples of metallic particles collected on a window sill of Citizen 86's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 87-Incident No. 258589

Samples of metallic particles collected on a window screen framework of Citizen 87's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 88-Incident No. 258596

Samples of metallic particles collected on a window sill of Citizen 88's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 89-Incident No. 258591

Samples of metallic particles collected on a window sill of Citizen 89's residence were confirmed to have magnetic

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properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 90-Incident No. 258546

Samples of metallic particles collected on a window sill of Citizen 90's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 91-Incident No. 258572

Samples of metallic particles collected on a window sill of Citizen 91's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 92-Incident No. 258599

Samples of metallic particles collected on window screen framework of Citizen 92's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 93-Incident No. 258554

Samples of metallic particles collected on window screen framework of Citizen 93's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 94-Incident No. 258581

Samples of metallic particles collected on a window ledge of Citizen 94's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 95-Incident No. 258553

Samples of metallic particles collected on a front window sill of Citizen 95's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 96-Incident No. 258565

Samples of metallic particles collected on an outdoor glass tabletop at Citizen 96's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 97-Incident No. 258646

Samples of metallic particles collected on a backyard window air condition unit of Citizen 97's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 98-Incident No. 258570

Samples of metallic particles collected on a window ledge of Citizen 98's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 99-Incident No. 258575

Samples of metallic particles collected on a window sill of Citizen 99's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 100-Incident No. 258580

Samples of metallic particles collected on a window ledge of Citizen 100's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

May 25, 2017

Mr. Haney and Mr. Rizzo responded to three complaints (Citizen 101-103) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of south winds at 16 mph with 25 mph wind gusts and an ambient air temperature of 81 degrees Fahrenheit.

Citizen 101-Incident No. 258626

Tape lift samples were obtained from an east facing window sill and a southeast facing window sill at Citizen 101's residence, designated as Sample No. 1706003-001 and 1706003-002, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1706003, are given in Attachment 14. The results indicated the following:

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Sample No. 1706003-001 (lightly loaded) contained less than 5% metal particles. Metal particles ranged in color from back to reddish and ranged in size from 30 to 50 microns. The sample also contained between 71 and 80% plant material and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, paint chips, and plant fibers. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1706003-002 (lightly loaded) contained between 21 and 30% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 to 100 microns. The sample also contained between 51 and 60% common clays and minerals and between 5 and 20% plant material. Other particles present in quantities less than 5% included fungal spores and plant fibers. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Citizen 102-Incident No. 258648

Samples of metallic particles collected on a window sill of Citizen 102's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 103-Incident No. 258660

Samples of metallic particles collected on a window ledge of Citizen 103's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

May 26, 2017

Mr. Lindsay and Ms. Sparks responded to seven complaints (Citizen 104-110) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 17 mph with 29 mph wind gusts and an ambient air temperature of 84 degrees Fahrenheit.

Citizen 104-Incident No. 258996

Samples of metallic particles collected on a window ledge of Citizen 104's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 105-Incident No. 258669

Samples of metallic particles collected on a window ledge of Citizen 105's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 106-Incident No. 258763

Samples of metallic particles collected on a window sill of Citizen 106's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 107-Incident No. 258992

Samples of metallic particles collected on a front window ledge of Citizen 107's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 108-Incident No. 259001

Samples of metallic particles collected on a window sill of Citizen 108's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 109-Incident No. 258765

Samples of metallic particles collected on an electric meter cover at Citizen 109's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 110-Incident No. 258764

Samples of metallic particles collected on a window ledge of Citizen 110's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

May 30, 2017

Ms. Hoelscher and Ms. Bernhagen responded to five complaints (Citizen 111-115) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 7 mph with 13 mph wind gusts and an ambient air temperature of 85 degrees Fahrenheit.

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Citizen 111-Incident No. 258968

Samples of metallic particles collected on a back patio table and front window screen framework of Citizen 111's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It also appeared that metallic particles had settled on the bottom of the pool. Note: Prior to the TCEQ Team arriving at the residence, Citizen 111 had collected some of the metallic particles from the pool. Citizen 111 demonstrated to the TCEQ Team that the metallic particles had magnetic properties consistent with the metallic particles identified at Citizen 111's residence and on the other citizens' residences.

Citizen 112-Incident No. 258969

Samples of metallic particles collected on a front window ledge and sill and the air conditioner unit cover at Citizen 112's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 113-Incident No. 258990

Samples of metallic particles collected on a front window sill and the garage door seal of Citizen 113's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 114-Incident No. 259004

Samples of metallic particles collected on a front window screen framework of Citizen 114's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 115-Incident No. 259029

Tape lift samples were obtained from the floor board inside a car and the outdoor garage light bulb at Citizen 115's residence, designated as Sample No. 1706004-001 and 1706004-002, respectively. The Laboratory Analysis Results of the tape lift samples, Request No. 1706004, are given in Attachment 15. The results indicated the following:

Sample No. 1706004-001 (moderately loaded) contained less than 5% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 5 to 100 microns. Paint chips accounted from over 80% of the particles coverage. The sample also contained between 5 and 20% hair. Other particles present in quantities less than 5% included common clays and minerals and paper fibers. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

Sample No. 1706004-002 (heavily loaded) contained between 5 and 20% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 to 80 microns. The sample also contained between 5 and 20% common clays and minerals and between 61 and 70% fungal spores. Other particles present in quantities less than 5% included paint overspray, paper fibers, plant trichomes, and pollen. The x-ray spectra of a metal particle was consistent with the reference samples submitted in Request No. 1705011.

June 2, 2017

Ms. Hoelscher and Ms. Smith responded to three complaints (Citizen 116-118) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of east winds at 7 mph with 13 mph wind gusts and an ambient air temperature of 84 degrees Fahrenheit.

Citizen 116-Incident No. 259152

Samples of metallic particles collected on a front window ledge at Citizen 116's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 117-Incident No. 259150

Samples of metallic particles collected on a front window ledge at Citizen 117's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 118-Incident No. 259692

Samples of metallic particles collected on a front window ledge at Citizen 118's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

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June 5, 2017

Ms. Hoelscher and Ms. Fuqua responded to two complaints (Citizen 119-120) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of north/northwest winds at 5 mph with 11 mph wind gusts and an ambient air temperature of 84 degrees Fahrenheit.

Citizen 119-Incident No. 259693

Samples of metallic particles collected on a front window ledge at Citizen 119's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 120-Incident No. 259694

Samples of metallic particles collected on a back window sill and ledge and inside of the backyard pool at Citizen 120's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It was noted that the metallic particles had settled on the bottom of the pool and pool steps, and Citizen 120 demonstrated to the TCEQ Team that the metallic particles had magnetic properties consistent with the metallic particles identified at Citizen 120's residence and on the other citizens' residences. Citizen 120 also stated that the pool is cleaned daily with an automatic device. Citizen 120 contacted the TCEQ R14 Office on June 7, 2017 indicating that the pool had been cleaned the previous afternoon (June 6, 2017) and that morning (June 7, 2017) there were more metallic particles in the pool.

June 8, 2017

Ms. Hoelscher and Mr. Haney responded to four complaints (Citizen 121-124) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of south/southeast winds at 7 mph with 14 mph wind gusts and an ambient air temperature of 86 degrees Fahrenheit.

Citizen 121-Incident No. 259695

Samples of metallic particles collected on the front window sills at Citizen 121's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 122-Incident No. 259742

Samples of metallic particles collected on a front window sill at Citizen 122's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 123-Incident No. 259752

Samples of metallic particles collected on a front window sill at Citizen 123's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 124-Incident No. 259825

Samples of metallic particles collected on a side window sill at Citizen 124's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

June 13, 2017

Ms. Hoelscher and Ms. Fuqua responded to four complaints (Citizen 125-128) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 13 mph with 22 mph wind gusts and an ambient air temperature of 86 degrees Fahrenheit.

Citizen 125-Incident No. 259842

Samples of metallic particles collected on the front window sill at Citizen 125's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 126-Incident No. 260218

Samples of metallic particles collected on a front window ledge at Citizen 126's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 127-Incident No. 260219

Samples of metallic particles collected on a front window sill and front patio railing at Citizen 127's residence were

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confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 128-Incident No. 260216

Samples of metallic particles collected on a front window sill and an outlet box by the front door at Citizen 128's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

June 15, 2017

Ms. Hoelscher and Ms. Fox responded to two complaints (Citizen 129-130) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 14 mph with 23 mph wind gusts and an ambient air temperature of 86 degrees Fahrenheit.

Citizen 129-Incident No. 260253

Samples of metallic particles collected on a front window ledge at Citizen 129's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 130-Incident No. 260266

Samples of metallic particles collected on a front window ledge at Citizen 130's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

June 23, 2017

Ms. Hoelscher responded to five complaints (Citizen 131-135) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of south winds at 13 mph with 21 mph wind gusts and an ambient air temperature of 86 degrees Fahrenheit.

Citizen 131-Incident No. 260419

Samples of metallic particles collected on a front window screen frame at Citizen 131's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 132-Incident No. 260561

Samples of metallic particles collected on the outlet box by the front door at Citizen 132's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 133-Incident No. 260562

Samples of metallic particles collected on a back window ledge at Citizen 133's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

In addition, a 30-second ambient air tape lift sample was obtained in the backyard of Citizen 133's property, designated as Sample No. 1707002-001. It should be noted that Citizen 133's backyard bordered an open field directly downwind of Voestalpine. The Laboratory Analysis Results of the tape lift sample, Request No. 1707002, are given in Attachment 16. The results indicated the following:

Sample No. 1707002-001 (lightly loaded) contained between 31 and 40% metal particles. The metal particles ranged in size from 15 to 40 microns. The sample also contained between 31 and 40% plant fibers and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included fungal spores. There were two metal particles and one plant fiber that made for the majority of the particles on the subsample. There was not enough sample to confirm, by EDS, if the metal particles were consistent with reference samples in Request No. 1705011.

Citizen 134-Incident No. 260594

Samples of metallic particles collected on a back window ledge at Citizen 134's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 135-Incident No. 260903

Samples of metallic particles collected on a front window ledge at Citizen 135's residence were confirmed to have

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magnetic properties consistent with the metallic particles identified on the other citizens' residences. It also appeared that metal particles had settled on the bottom of the children's pool on the front porch.

June 30, 2017

Ms. Hoelscher responded to two complaints (Citizen 136-137) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of south/southeast winds at 14 mph with 22 mph wind gusts and an ambient air temperature of 86 degrees Fahrenheit.

Citizen 136-Incident No. 261418

Samples of metallic particles collected on a front window sill at Citizen 136's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Citizen 137-Incident No. 261445

Samples of metallic particles collected on a front window sill at Citizen 137's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It also appeared that metal particles had settled on the bottom of the backyard pool.

July 13, 2017

Ms. Hoelscher responded to one complaint (Citizen 138) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 11 mph with 19 mph wind gusts and an ambient air temperature of 88 degrees Fahrenheit.

Citizen 138-Incident No. 262147

Samples of metallic particles collected on two side window sills and the front door at Citizen 138's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences. It should be noted that Citizen 138 had washed the front door off with water within the prior week and an accumulation of metal particles was still documented on the front door.

Ms. Hoelscher also conducted an onsite investigation at Voestalpine to document the progress of corrective actions. At the time of the investigation, meteorological conditions consisted of southeast winds at 11 mph with 19 mph wind gusts and an ambient air temperature of 89 degrees Fahrenheit. Ms. Hoelscher met with Ms. Parham and Mr. Vanlandingham to discuss the current conditions of the outdoor stockpiles. A chemical suppressant, CHEMTREAT DT907 (Gorilla Snot), was being applied to the stockpiles to control dust. Refer to Attachment 17 for the SDS for Gorilla Snot. Dust suppression misting cannons, Dust Bosses, had also been purchased and were being utilized when there was any loading or unloading of the piles. See Attachment 17 for the dust boss spec sheet. The progression of removal or mitigation of emissions of the outdoor piles was documented and photographed per Emission Point No. (EPN). During the investigation, visible emissions were not noted leaving the piles or property. Refer to Attachment 18 for photographs of the piles.

July 19, 2017

Ms. Hoelscher and Ms. Diguardi responded to one complaint (Citizen 139) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of southeast winds at 11 mph with 19 mph wind gusts and an ambient air temperature of 89 degrees Fahrenheit.

Citizen 139-Incident No. 263318

Samples of metallic particles collected on the hurricane shutters on a side backyard window at Citizen 139's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

September 8, 2017

Ms. Hoelscher and Mr. Kiss responded to one complaint (Citizen 140) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of east winds at 11 mph with 20 mph wind gusts and an ambient air temperature of 84 degrees Fahrenheit.

Citizen 140-Incident No. 267252

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Samples of metallic particles collected on a front window ledge at Citizen 140's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

October 16, 2017

Ms. Hoelscher and Mr. Pinion responded to one complaint (Citizen 141) received at the TCEQ R14 Office. At the time of the investigation, meteorological conditions consisted of north winds at 20 mph with 27 mph wind gusts and an ambient air temperature of 75 degrees Fahrenheit.

Citizen 141-Incident No. 270289

Samples of metallic particles collected on a front window sill at Citizen 141's residence were confirmed to have magnetic properties consistent with the metallic particles identified on the other citizens' residences.

Additional Information

Additional information regarding Voestalpine's operations was requested on May 31, 2017 and June 16, 2017. A response was received on June 14, 2017 and June 21, 2017, respectively. See Attachment 19 for the additional information.

EXIT INTERVIEW:

On July 20, 2017, an Exit Interview Form (EIF) outlining three alleged violations was sent to Ms. Parham and Mr. Hernandez via email. Ms. Parham responded with some additional questions, and Ms. Hoelscher provided a response on July 27, 2017. As requested by Voestalpine, an EIF meeting was conducted on August 10, 2017 with the following attendees: Ms. Parham, Mr. Schwarz, Mr. Chernekoff, Ms. Pringle, Mr. Robinson, Mr. Ruble, Mr. Lopez, Ms. Clewis, and Ms. Hoelscher. Refer to Attachment 20 for the Exit Interview documentation.

On September 22, 2017, Ms. Parham submitted additional information in response to the alleged violations. The EIF response is referenced in Attachment 21 and is located in the TCEQ R14 Office confidential files.

II. GENERAL FACILITY AND PROCESS INFORMATION

PROCESS DESCRIPTION:

Voestalpine is a Direct Reduced Iron (DRI)/Hot Briquetting Iron (HBI) production plant. Voestalpine receives iron oxide pellets which are converted to iron pellets and then pressed into iron briquettes. The DRI process consists of two main components including a reformer, to produce the reducing agent, and the DRI reactor, where the reaction occurs. For a complete process description see Voestalpine's public files at the TCEQ R14 Office.

III. BACKGROUND

PERFORMANCE CLASSIFICATION AND COMPLIANCE RATING:

Voestalpine Texas LLC (CN604261545) Classification: High Rating: 0.00

La Quinta Plant (RN106597875)

Classification: High Rating: 0.00

NOTE: Title 30 TAC §60.2 - Compliance History Classification (Point Ranges): High Performer (above-satisfactory compliance record) = fewer than 0.10 points; Satisfactory Performer (generally complies with environmental regulations) = 0.10 to 55 points; Unsatisfactory Performer (performs below minimal acceptable performance standards established by the commission) = more than 55 points

AGREED ORDERS, COURT ORDERS, AND OTHER COMPLIANCE AGREEMENTS:

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Voestalpine has not been subject to any air-related agreed orders, court orders, or other compliance agreements in the past five years.

PRIOR ENFORCEMENT ISSUES:

Voestalpine has not been the subject of any prior air-related enforcement issues in the past five years.

COMPLAINTS:

Prior to this investigation, Voestalpine had not been the subject of any air-related complaints. However, in the previous six months, Voestalpine has been the subject of 141 air-related complaints. These 141 complaints are addressed in this investigation.

IV. ADDITIONAL INFORMATION

CONCLUSIONS, RECOMMENDATIONS, AND CURRENT ENFORCEMENT ISSUES:

As a result of the complaint investigations conducted on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, July 19, 2017, September 8, 2017, and October 16, 2017, by the TCEQ's onsite observations, analyses of samples collected, review of CCE, and review of the additional information submitted by Voestalpine, the following noncompliant issues were documented.

Voestalpine failed to prevent nuisance dust conditions. Deposits of particulate matter (iron ore dust) from the La Quinta Plant were found in sufficient concentration and of such duration to interfere with normal use and enjoyment of property (nuisance dust conditions). A variance request was approved by Ms. Clewis on August 16, 2017 to initiate formal enforcement against Voestalpine due to the high number of citizens in the Portland community impacted by the metallic particles (iron ore dust). The citizens have been unable to have normal use and enjoyment of their property due to the accumulation of the iron ore dust on and in their residences, in their pools, in their yards, on their children's outdoor play equipment, and on their vehicles. Refer to Violation Track No. 651644 for more information.

As per Voestalpine's New Source Review (NSR) Permit No. 108113 Special Condition 17, iron ore pellets shall be stored in enclosed storage. Voestalpine failed to comply with NSR Permit No. 108113 and began storing iron ore pellets outside at the La Quinta Plant on February 17, 2017. The outside storage of iron ore pellets was verified during onsite sampling events on May 17, 2017 and May 24, 2017. As of June 6, 2017, Voestalpine had five outside storage piles containing iron ore pellets, EPNs 45, 46, 56, 59, 60. Refer to Violation Track No. 651649 for more information.

In addition, Voestalpine failed to obtain authorization for outside storage of piles of fines, clusters, chips, sludge, and remet. On June 6, 2017, Voestalpine submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, EPNs 41 through 61, of iron ore pellets, fines, chips, sludge, and remet. The amount stored in each pile ranged from approximately 35 metric tons to 95,000 metric tons. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261. PBR Registration No. 147082 documentation is included in Attachment 22. Refer to Violation Track No. 651654 for more information.

See the "OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT" section and the "ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF ENFORCEMENT" section below for details.

V. ATTACHMENTS

- 1. Complaint List
- 2. Photographic Documentation of Citizens' Impact of Metallic Particles
- 3. Laboratory Analysis Request No. 1705011
- 4. May 17, 2017 Reference Sample Photographs

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- 5. Process Description and Safety Data Sheets
- 6. Voestalpine Texas Site Dust Health Risk Analysis
- 7. Laboratory Analysis Request No. 1705012
- 8. Laboratory Analysis Request No. 1705014
- 9. Laboratory Analysis Request No. 1705013
- 10. Laboratory Analysis Request No. 1705016
- 11. Citizen Collected Evidence
- 12. TCEQ Heavy Metal Sample Results
- 13. May 24, 2017 Heavy Metal Sampling Photographs
- 14. Laboratory Analysis Request No. 1706003
- 15. Laboratory Analysis Request No. 1706004
- 16. Laboratory Analysis Request No. 1707002
- 17. Gorilla Snot Safety Data Sheet and Dust Boss Spec Sheet
- 18. July 13, 2017 Photographs
- 19. Additional Information
- 20. Exit Interview Documentation
- 21. Exit Interview Form Response
- 22. Permit by Rule Registration No. 147082 Documentation

NOE Date: 11/3/2017

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track Number: 651644

Compliance Due Date: To Be Determined

Violation Start Date: Unknown

30 TAC Chapter 101.4 5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 1415945

Comment Date: 11/02/2017

Failure to prevent nuisance dust conditions. Specifically, Voestalpine Texas LLC failed to prevent a discharge from any source whatsoever one or more air contaminants or combinations thereof, in such concentration and of such duration as are or may tend to be injurious to or to adversely affect human health or welfare, animal life, vegetation, or property, or as to interfere with the normal use and enjoyment of animal life, vegetation, or property. Based upon a response to 141 citizen complaints received on May 16, 2017, May 17, 2017, May 18, 2017, May 20, 2017, May 21, 2017, May 22, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, May 31, 2017, June 2, 2017, June 5, 2017, June 7, 2017, June 8, 2017, June 12, 2017, June 13, 2017, June 14, 2017, June 16, 2017, June 19, 2017, June 20, 2017, June 22, 2017, June 27, 2017, June 30, 2017, July 18, 2017, August 24, 2017, and October 13, 2017, by the TCEQ's onsite observations, analyses of samples collected, and review of citizen collected evidence, it was determined that deposits of particulate matter (iron ore dust) from the La Quinta Plant were found in sufficient concentration and of such duration to interfere with normal use and enjoyment of property. Nuisance dust conditions were documented on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, July 19, 2017, September 8, 2017, and October 16, 2017.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF ENFORCEMENT

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Track Number: 651649

Resolution Status Date: 9/26/2017

Violation Start Date: 2/17/2017

Violation End Date: 7/6/2017

30 TAC Chapter 101.20(3) 30 TAC Chapter 116.115(c) 5C THSC Chapter 382.085(b)

PERMIT 108113, PSDTX1344M1, Special Condition 17

Iron ore pellets shall be stored in enclosed storage.

Alleged Violation:

Investigation: 1415945

Comment Date: 09/26/2017

Failure to store iron ore pellets in enclosed storage. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside at the La Quinta Plant on February 17, 2017. The outside storage of iron ore pellets was verified during onsite sampling events on May 17, 2017 and May 24, 2017. As of June 6, 2017, Volestalpine Texas LLC had five outside storage piles containing iron ore pellets, Emission Point Numbers (EPNs) 45, 46, 56, 59, 60.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

Resolution: On June 6, 2017, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

Track Number: 651654

Resolution Status Date: 8/17/2017

Violation Start Date: 2/17/2017

Violation End Date: 7/6/2017

30 TAC Chapter 116.110(a) 5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 1415945

Comment Date: 08/17/2017

Failure to obtain proper authorization. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside on February 17, 2017 and continued to store additional piles of fines, clusters, chips, sludge, and remet, EPNs 41 through 61, without obtaining authorization.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

Resolution: On June 6, 2017, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

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Signed July Househor Environmental Investigator	Date 11/2/17
Signed Killy Supervisor	Date <u>///3/17</u>
Attachments: (in order of final report sub	omittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type): Notelos Enforce	mentPhotographs
Investigation Report (NOE)	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	& See Attachment List on
Notice of Registration	Page 26 of 29 : Rage 27 of 29 ok



ATTACHMENT 1 Complaint List

Total Pages: 4

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Voestalpine Complaint Log

Citizen No.	Incident No.	Date Received	Investigation Date	Investigation N
1	257967	5/16/2017	5/16/2017	1415945
2	258031	5/16/2017	5/16/2017	1415945
3	258027	5/16/2017	5/16/2017	1415945
4	258034	5/16/2017	5/16/2017	1415945
5	258023	5/17/2017	5/17/2017	1415945
6	258012	5/17/2017	5/17/2017	1415945
7	258039	5/17/2017	5/17/2017	1415945
8	258158	5/18/2017	5/18/2017	1415945
9	258143	5/18/2017	5/18/2017	1415945
10	258147	5/18/2017	5/18/2017	1415945
11	258160	5/18/2017	5/18/2017	1415945
12	258146	5/18/2017	5/18/2017	1415945
13	258172	5/18/2017	5/18/2017	1415945
14	258138	5/18/2017	5/18/2017	1415945
15	258149	5/18/2017	5/18/2017	1415945
16	258170	5/18/2017	5/18/2017	1415945
17	258140	5/18/2017	5/18/2017	1415945
18	258165	5/18/2017	5/18/2017	1415945
19	258141	5/18/2017	5/18/2017	1415945
20	258144	5/18/2017	5/19/2017	1415945
21	258162	5/18/2017	5/19/2017	1415945
22	258169	5/18/2017	5/19/2017	1415945
23	258176	5/18/2017	5/20/2017	1415945
24	258201	5/18/2017	5/19/2017	1415945
25	258243	5/19/2017	5/19/2017	1415945
26	258245	5/19/2017	5/19/2017	1415945
27	258251	5/19/2017	5/19/2017	1415945
28	258235	5/19/2017	5/19/2017	1415945
29	258250	5/19/2017	5/19/2017	1415945
30	258238	5/19/2017	5/19/2017	1415945
31	258232	5/19/2017	5/19/2017	1415945
32	258248	5/19/2017	5/19/2017	1415945
33	258242	5/19/2017	5/19/2017	1415945
34	258244	5/19/2017	5/19/2017	1415945
35	258264	5/19/2017	5/19/2017	1415945
36	258283	5/19/2017	5/23/2017	1415945
37	258285	5/19/2017	5/19/2017	1415945
38	258166	5/18/2017	5/19/2017	1415945
39	258173	5/18/2017	5/19/2017	1415945
40	258202	5/19/2017	5/19/2017	1415945
41	258174	5/18/2017	5/19/2017	1415945
42	258177	5/18/2017	5/19/2017	1415945

Attachment 1 Inv. No. 1415945 Page ___ of ____

43	258229	5/19/2017	5/19/2017	1415945
44	258226	5/19/2017	5/23/2017	1415945
45	258230	5/19/2017	5/19/2017	1415945
46	258263	5/19/2017	5/19/2017	1415945
47	258142	5/18/2017	5/19/2017	1415945
48	258156	5/18/2017	5/19/2017	1415945
49	258150	5/18/2017	5/19/2017	1415945
50	258171	5/18/2017	5/19/2017	1415945
51	258227	5/19/2017	5/19/2017	1430244
52	258167	5/18/2017	5/19/2017	1430244
53	258200	5/18/2017	5/19/2017	1430244
54	258203	5/19/2017	5/19/2017	1430244
55	258223	5/19/2017	5/19/2017	1430244
56	258420	5/19/2017	5/20/2017	1430244
57	258308	5/19/2017	5/20/2017	1430244
58	258309	5/19/2017	5/20/2017	1430244
59	258287	5/19/2017	5/20/2017	1430244
60	258415	5/20/2017	5/23/2017	1430244
61	258282	5/19/2017	5/23/2017	1430244
62	258199	5/18/2017	5/23/2017	1430244
63	258413	5/20/2017	5/23/2017	1430244
64	258479.	5/22/2017	5/23/2017	1430244
65	258480	5/23/2017	5/23/2017	1430244
66	258421	5/22/2017	5/23/2017	1430244
67	258408	5/19/2017	5/23/2017	1430244
68	258485	5/23/2017	5/23/2017	1430244
69	258405	5/19/2017	5/23/2017	1430244
70	258470	5/22/2017	5/23/2017	1430244
71	258472	5/22/2017	5/23/2017	1430244
72	258471	5/22/2017	5/23/2017	1430244
73	258473	5/22/2017	5/23/2017	1430244
74	258484	5/23/2017	5/23/2017	1430244
75	258418	5/21/2017	5/23/2017	1430244
76	258423	5/22/2017	5/23/2017	1430244
77	258424	5/22/2017	5/23/2017	1430244
78	258475	5/22/2017	5/23/2017	1430244
79	258474	5/22/2017	5/23/2017	1430244
80	258476	5/22/2017	5/23/2017	1430244
81	258477	5/22/2017	5/23/2017	1430244
82	258468	5/22/2017	5/23/2017	1430244
83	258482	5/23/2017	5/23/2017	
84	258557	5/23/2017	5/24/2017	1430244
85	258590	5/24/2017		1430244
86	258595		5/24/2017	1430244
87		5/24/2017	5/24/2017	1430244
88	258589	5/24/2017	5/24/2017	1430244
89	258596	5/24/2017	5/24/2017	1430244
0.9	258591	5/24/2017	5/24/2017	1430244

				
90	258546	5/23/2017	5/24/2017	1430244
91	258572	5/24/2017	5/24/2017	1430244
92	258599	5/24/2017	5/24/2017	1430244
93	258554	5/23/2017	5/24/2017	1430244
94	258581	5/24/2017	5/24/2017	1430244
95	258553	5/23/2017	5/24/2017	1430244
96	258565	5/24/2017	5/24/2017	1430244
97	258646	5/24/2017	5/24/2017	1430244
98	258570	5/24/2017	5/24/2017	1430244
99	258575	5/24/2017	5/24/2017	1430244
100	258580	5/24/2017	5/24/2017	1430244
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102	258648	5/24/2017	5/25/2017	1430249
103	258660	5/25/2017	5/25/2017	1430249
104	258996	5/26/2017	5/26/2017	1430249
105	258669	5/25/2017	5/26/2017	1430249
106	258763	5/25/2017	5/26/2017	1430249
107	258992	5/26/2017	5/26/2017	1430249
108	259001	5/26/2017	5/26/2017	1430249
109	258765	5/25/2017	5/26/2017	1430249
110	258764	5/25/2017	5/26/2017	1430249
111	258968	5/30/2017	5/30/2017	1430249
112	258969	5/30/2017	5/30/2017	1430249
113	258990	5/30/2017	5/30/2017	1430249
114	259004	5/30/2017	5/30/2017	1430249
115	259029	5/30/2017	5/30/2017	1430249
116	259152	5/31/2017	6/2/2017	1430249
117	259150	5/31/2017	6/2/2017	1430249
118	259692	6/2/2017	6/2/2017	1430249
119	259693	6/2/2017	6/5/2017	1430249
120	259694	6/5/2017	6/5/2017	1430249
121	259695	6/5/2017	6/8/2017	1430249
122	259742	6/7/2017	6/8/2017	1430249
123	259752	6/7/2017	6/8/2017	1430249
124	259825	6/8/2017	6/8/2017	1430249
125	259842	6/8/2017	6/13/2017	1430249
126	260218	6/12/2017	6/13/2017	1430249
127	260219	6/12/2017	6/13/2017	1430249
128	260216	6/12/2017	6/13/2017	1430249
129	260253	6/13/2017	6/15/2017	1430249
130	260266	6/14/2017	6/15/2017	1430249
131	260419	6/16/2017	6/23/2017	1430249
132	260561	6/19/2017	6/23/2017	1430249
133	260562	6/20/2017	6/23/2017	1430249
134	260594	6/20/2017	6/23/2017	1430249
135	260903	6/22/2017	6/23/2017	1430249
. 136	261418	6/27/2017	6/30/2017	1430249

137	261445	6/27/2017	6/30/2017	1430249
138	262147	6/30/2017	7/13/2017	1430249
139	263318	7/18/2017	7/19/2017	1430249
140	267252	8/24/2017	9/8/2017	1430249
141	270289	10/13/2017	10/16/2017	1430249



ATTACHMENT 2 Photographic Documentation of Citizens' Impact of Metallic Particles

Total Pages: 57

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017



Subject: Demonstration of magnetic property

of the metallic particles on Citizen 1's

residence

Location: Citizen 1's Residence TCEQ Incident No. 257967

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 1



Subject: Location of Sample No. 1705011-001;

front siding of house

Location: Citizen 1's Residence TCEQ Incident No. 257967

City: Portland

County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 2



Subject: Location of Sample No. 1705011-002;

front window glass

Location: Citizen 1's Residence TCEQ Incident No. 257967

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 3



Subject: Metallic particles on Citizen 1's

residence

Location: Citizen 1's Residence TCEQ Incident No. 257967

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 4



Subject: Location of Sample No. 1705011-003;

outdoor light glass cover Location: Citizen 2's Residence TCEQ Incident No. 258031

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 5



Subject: Location of Sample No. 1705011-004;

plastic storage box

Location: Citizen 2's Residence TCEQ Incident No. 258031

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Sample No. 1705011-005;

front door window sill

Location: Citizen 3's Residence TCEQ Incident No. 258027

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 7

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705011-006;

front window glass

Location: Citizen 3's Residence TCEQ Incident No. 258027

City: Portland

County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 8



Subject: Location of Sample No. 1705011-007;

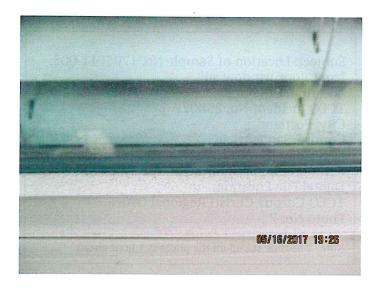
outdoor light glass cover Location: Citizen 4's Residence TCEQ Incident No. 258034

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Sample No. 1705011-008;

front window glass

Location: Citizen 4's Residence TCEQ Incident No. 258034

City: Portland County: San Patricio Date: May 16, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 10

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705012-001;

back door window glass

Location: Citizen 5's Residence TCEQ Incident No. 258023

City: Portland

County: San Patricio Date: May 17, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 11

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705012-002;

glass tabletop on back patio Location: Citizen 5's Residence TCEO Incident No. 258023

City: Portland

County: San Patricio Date: May 17, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 12



Subject: Location of Sample No. 1705012-003;

glass tabletop on back deck Location: Citizen 6's Residence TCEQ Incident No. 258012

City: Portland County: San Patricio Date: May 17, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 13

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705012-004;

front window glass

Location: Citizen 6's Residence TCEQ Incident No. 258012

City: Portland County: San Patricio Date: May 17, 2017

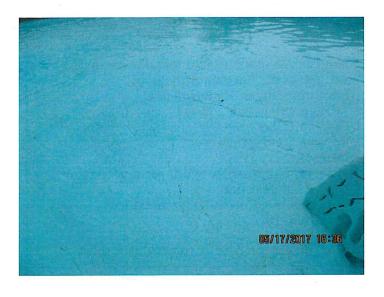
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 14

Note: The time stamp on the photo is 1 hour ahead.



Subject: Metallic particles settled on the bottom

of Citizen 6's pool

Location: Citizen 6's Residence TCEQ Incident No. 258012

City: Portland

County: San Patricio Date: May 17, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 15



Subject: Location of Sample No. 1705012-005;

backyard pool ladder

Location: Citizen 7's Residence TCEQ Incident No. 258039

City: Portland County: San Patricio Date: May 17, 2017

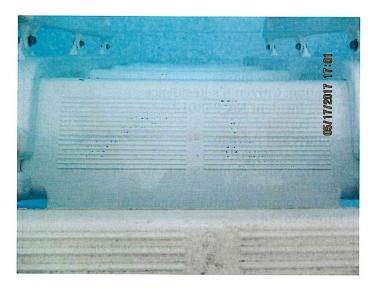
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 16

Note: The time stamp on the photo is 1 hour ahead.



Subject: Metallic particles settled on the pool

ladder steps

Location: Citizen 7's Residence TCEQ Incident No. 258039

City: Portland

County: San Patricio Date: May 17, 2017

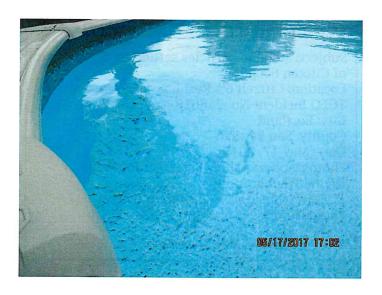
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 17

Note: The time stamp on the photo is 1 hour ahead.



Subject: Accumulation of metallic particles

settled on the bottom of the pool Location: Citizen 7's Residence TCEQ Incident No. 258039

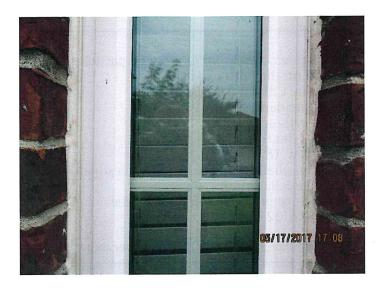
City: Portland County: San Patricio Date: May 17, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 18



Subject: Location of Sample No. 1705012-006;

front window glass

Location: Citizen 7's Residence TCEO Incident No. 258039

City: Portland County: San Patricio Date: May 17, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 19

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705014-006;

front window glass

Location: Citizen 8's Residence TCEQ Incident No. 258158

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 20

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705014-007;

backyard pool ledge

Location: Citizen 8's Residence TCEQ Incident No. 258158

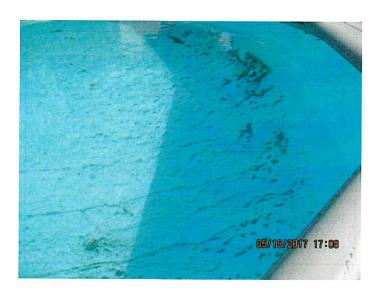
City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 21



Subject: Accumulation of metallic particles

settled on the bottom of the pool Location: Citizen 8's Residence TCEQ Incident No. 258158

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 22

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705013-007;

front window glass

Location: Citizen 9's Residence TCEQ Incident No. 258143

City: Portland

County: San Patricio Date: May 18, 2017

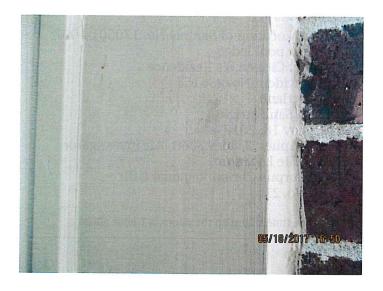
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 23

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705014-001;

garage door siding

Location: Citizen 9's Residence

TCEQ Incident No. 258143

City: Portland

County: San Patricio

Date: May 18, 2017

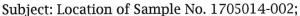
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 24





front window glass

Location: Citizen 10's Residence TCEQ Incident No. 258147

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 25

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705014-003;

front door

Location: Citizen 10's Residence TCEQ Incident No. 258147

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 26

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705014-004;

front door window glass

Location: Citizen 11's Residence

TCEQ Incident No. 258160

City: Portland

County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 27



Subject: Location of Sample No. 1705014-005;

front window screen frame Location: Citizen 11's Residence TCEQ Incident No. 258160

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 28

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-back

window sill

Location: Citizen 12's Residence TCEQ Incident No. 258146

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 29

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705013-001;

outside metal window sill

Location: Citizen 13's Workplace

TCEQ Incident No. 258172

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Sample No. 1705013-002;

outdoor light glass cover

Location: Citizen 14's Residence TCEQ Incident No. 258138

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 31



Subject: Location of Sample No. 1705013-003;

front window sill

Location: Citizen 14's Residence TCEQ Incident No. 258138

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 32



Subject: Location of Sample No. 1705013-004;

trunk of a car

Location: Citizen 14's Residence TCEQ Incident No. 258138

City: Portland

County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window sill

Location: Citizen 15's Residence TCEQ Incident No. 258149

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 34



Subject: Location of Sample No. 1705013-005;

front window sill

Location: Citizen 16's Residence TCEQ Incident No. 258170

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 35



Subject: Location of Sample No. 1705013-006;

front door

Location: Citizen 16's Residence TCEQ Incident No. 258170

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-BBQ pit

located in backyard

Location: Citizen 17's Residence TCEQ Incident No. 258140

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 37



Subject: Location of sample collection-piece of

angle iron located in backyard Location: Citizen 19's Residence TCEQ Incident No. 258141

City: Portland County: San Patricio Date: May 18, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 38



Subject: Location of sample collection-front

window sill

Location: Citizen 21's Residence TCEQ Incident No. 258162

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window ledge

Location: Citizen 22's Residence TCEQ Incident No. 258169

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 40



Subject: Sample collected from front window

shutter

Location: Citizen 23's Residence TCEQ Incident No. 258176

City: Portland

County: San Patricio Date: May 20, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 41



Subject: Location of sample collection-front

window ledge

Location: Citizen 24's Residence TCEQ Incident No. 258201

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window sill

Location: Citizen 25's Residence TCEQ Incident No. 258243

City: Portland County: San Patricio

Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 43



Subject: Location of sample collection-front

window sill

Location: Citizen 26's Residence TCEO Incident No. 258245

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 44



Subject: Accumulation of metallic particles on

the grass blades

Location: Citizen 26's Residence

TCEQ Incident No. 258245

City: Portland

County: San Patricio

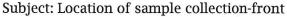
Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office





window glass

Location: Citizen 27's Residence TCEQ Incident No. 258251

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 46



Subject: Location of Sample No. 1705016-003;

front window glass

Location: Citizen 28's Residence TCEQ Incident No. 258235

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 47



Subject: Location of Sample No. 1705016-004;

outdoor light glass cover

Location: Citizen 28's Residence

TCEQ Incident No. 258235

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Sample No. 1705016-001;

front window glass

Location: Citizen 29's Residence TCEQ Incident No. 258250

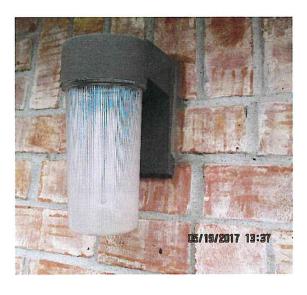
City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 49



Subject: Location of Sample No. 1705016-002;

outdoor light plastic cover Location: Citizen 29's Residence TCEQ Incident No. 258250

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 50



Subject: Location of sample collection-front

window sill

Location: Citizen 31's Residence TCEQ Incident No. 258232

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window screen framework Location: Citizen 32's Residence TCEQ Incident No. 258248

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 52



Subject: Location of sample collection-front

window sill

Location: Citizen 33's Residence TCEQ Incident No. 258242

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No.53



Subject: Location of sample collection-front

window sill

Location: Citizen 34's Residence TCEQ Incident No. 258244

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window ledge

Location: Citizen 35's Residence TCEQ Incident No. 258264

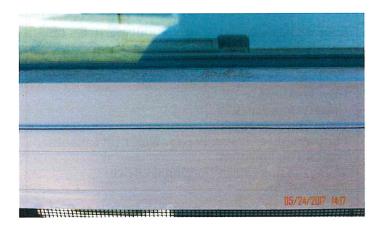
City: Portland County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 55



Subject: Location of sample collection-front

window ledge

Location: Citizen 35's Residence

TCEQ Incident No. 258264

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 56



Subject: Location of sample collection-garage

door

Location: Citizen 36's Residence TCEO Incident No. 258283

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 57



trampoline

Location: Citizen 36's Residence TCEQ Incident No. 258283

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 58

Note: The time stamp on the photo is 1 hour ahead.



Subject: Accumulation of metallic particles on

trampoline

Location: Citizen 36's Residence

TCEQ Incident No. 258283

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 59

Note: The time stamp on the photo is 1 hour ahead.



Subject: Accumulation of metallic particles on

trampoline

Location: Citizen 36's Residence TCEQ Incident No. 258283

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 60



Subject: Accumulation of metallic particles on

trampoline

Location: Citizen 36's Residence

TCEQ Incident No. 258283

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 61

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-front

window sill

Location: Citizen 37's Residence

TCEQ Incident No. 258285

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Andrew Kiss, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 62



Subject: Location of sample collection-glass

window pane on side of residence Location: Citizen 38's Residence TCEQ Incident No. 258166

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-BBQ pit

Location: Citizen 40's Residence TCEQ Incident No. 258202

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 64



Subject: Location of sample collection-front

window ledge

Location: Citizen 41's Residence

TCEQ Incident No. 258174

City: Portland

County: San Patricio

Date: May 19, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 65



Subject: Location of sample collection-front

window ledge

Location: Citizen 42's Residence

TCEQ Incident No. 258177

City: Portland

County: San Patricio

Date: May 19, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window ledge

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 67



Subject: Location of sample collection-outdoor

grill

Location: Citizen 44's Residence TCEQ Incident No. 258226

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 68

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-electric

box

Location: Citizen 44's Residence TCEQ Incident No. 258226

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 69



Subject: Location of sample collection-BBQ grill

Location: Citizen 45's Residence TCEQ Incident No. 258230

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 70



Subject: Magnetic property of metallic particles

accumulation on vehicle

Location: Citizen 46's Residence TCEQ Incident No. 258263

City: Portland County: San Patricio

Date: May 19, 2017

Photographer: Mike Riff, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 71



Subject: Location of sample collection-patio

table

Location: Citizen 47's Residence TCEQ Incident No. 258142

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 72



Subject: Location of sample collection-window

ledge

Location: Citizen 49's Residence TCEQ Incident No. 258150

City: Portland County: San Patricio Date: May 19, 2017

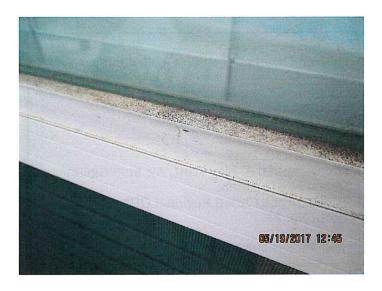
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 73

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-window

ledge

Location: Citizen 50's Residence

TCEQ Incident No. 258171

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 74

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-window

sill

Location: Citizen 51's Residence

TCEQ Incident No. 258227

City: Portland

County: San Patricio

Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 75



Subject: Location of sample collection-window

ledge

Location: Citizen 51's Residence TCEQ Incident No. 258227

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 76

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-garage

door

Location: Citizen 51's Residence

TCEQ Incident No. 258227

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 77

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-junction

box

Location: Citizen 52's Residence TCEQ Incident No. 258167

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 78



Subject: Location of sample collection-window

screen framework

Location: Citizen 52's Residence

TCEQ Incident No. 258167

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 79

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-mini

refrigerator

Location: Citizen 52's Residence

TCEQ Incident No. 258167

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 80

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-BBQ pit

Location: Citizen 52's Residence

TCEQ Incident No. 258167

City: Portland

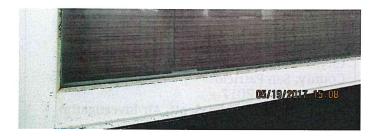
County: San Patricio Date: May 19, 2017

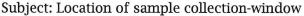
Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 81





ledge

Location: Citizen 53's Residence TCEQ Incident No. 258200

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 82

Note: The time stamp on the photo is 1 hour ahead.



Subject: Accumulation of metallic particles

settled on the bottom of the pool Location: Citizen 53's Residence TCEQ Incident No. 258200

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 83

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of Sample No. 1705016-005;

front window glass

Location: Citizen 54's Residence TCEQ Incident No. 258203

City: Portland

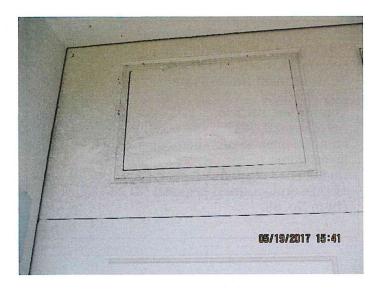
County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 84



Subject: Location of Sample No. 1705016-006;

back garage door

Location: Citizen 54's Residence TCEQ Incident No. 258203

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 85

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-window

sill

Location: Citizen 55's Residence TCEQ Incident No. 258223

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 86

Note: The time stamp on the photo is 1 hour ahead.



Subject: Accumulation of metallic particles

settled on the bottom of the pool Location: Citizen 55's Residence TCEQ Incident No. 258223

City: Portland County: San Patricio Date: May 19, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 87



Subject: Sample collected from back window

Location: Citizen 56's Residence

TCEQ Incident No. 258420

City: Portland County: San Patricio Date: May 20, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 88



Subject: Sample collected from front window

Location: Citizen 57's Residence TCEQ Incident No. 258308

City: Portland County: San Patricio Date: May 20, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 89



Subject: Sample collected from back window

Location: Citizen 58's Residence

TCEQ Incident No. 258309

City: Portland

County: San Patricio Date: May 20, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Sample collected from front window

Location: Citizen 59's Residence TCEQ Incident No. 258287

City: Portland County: San Patricio Date: May 20, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 91



Subject: Location of sample collection-front

window sill

Location: Citizen 60's Residence

TCEQ Incident No. 258415

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 92



Subject: Location of sample collection-front

window sill

Location: Citizen 61's Residence TCEQ Incident No. 258282

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window sill

Location: Citizen 62's Residence TCEQ Incident No. 258199

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 94



Subject: Accumulation of metallic particles on a

vehicle

Location: Citizen 63's Residence TCEQ Incident No. 258413

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 95



Subject: Location of sample collection-front

window ledge

Location: Citizen 63's Residence TCEQ Incident No. 258413

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Karen Bridges, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



window ledge

Location: Citizen 64's Residence TCEQ Incident No. 258479

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 97



Subject: Location of sample collection-back

porch window sill

Location: Citizen 67's Residence

TCEQ Incident No. 258408

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 98



Subject: Location of sample collection-front

window sill

Location: Citizen 68's Residence

TCEQ Incident No. 258485

City: Portland

County: San Patricio

Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



patio table

Location: Citizen 68's Residence TCEQ Incident No. 258485

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 100



Subject: Location of sample collection-trash can

Location: Citizen 70's Residence TCEQ Incident No. 258470

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 101

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-front

window

Location: Citizen 71's Residence TCEQ Incident No. 258472

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 102



window sill

Location: Citizen 72's Residence TCEO Incident No. 258471

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 103

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-front

window sill

Location: Citizen 73's Residence

TCEQ Incident No. 258473

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 104

Note: The time stamp on the photo is 1 hour ahead.



Subject: Location of sample collection-front

window ledge

Location: Citizen 74's Residence

TCEQ Incident No. 258484

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Travis Prater, Water Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 105



Subject: Sample collected from front window

sil

Location: Citizen 75's Residence

TCEQ Incident No. 258418

City: Portland County: San Patricio Date: May 23, 2017

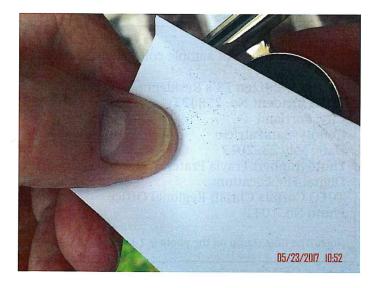
Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 106



Subject: Sample collected from front window

sill

Location: Citizen 76's Residence

TCEQ Incident No. 258423

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 107



Subject: Sample collected from front window

sill

Location: Citizen 77's Residence

TCEQ Incident No. 258424

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office







Subject: Sample collected from front window

sill

Location: Citizen 78's Residence

TCEQ Incident No. 258475

City: Portland County: San Patricio Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 109

Subject: Sample collected from top of black box

(attached) by front door

Location: Citizen 79's Residence

TCEQ Incident No. 258474

City: Portland

County: San Patricio

Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 110

Subject: Sample collected from front window

cill

Location: Citizen 80's Residence

TCEQ Incident No. 258476

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office







Subject: Sample collected from front window

sill

Location: Citizen 81's Residence TCEO Incident No. 258477

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 112

Subject: Sample collected from front door

panel

Location: Citizen 82's Residence

TCEQ Incident No. 258468

City: Portland County: San Patricio

Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 113

Subject: Sample collected from front window

cill

Location: Citizen 83's Residence

TCEQ Incident No. 258482

City: Portland

County: San Patricio Date: May 23, 2017

Photographer: Kendra Bernhagen, Waste

Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



ledge

Location: Citizen 84's Residence TCEQ Incident No. 258557

City: Portland County: San Patricio

Date: May 24, 2017 Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 115



Subject: Location of sample collection-window

screen framework

Location: Citizen 85's Residence

TCEQ Incident No. 258590

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 116



Subject: Location of sample collection-window

sil

Location: Citizen 86's Residence

TCEQ Incident No. 258595

City: Portland

County: San Patricio

Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



screen framework

Location: Citizen 87's Residence TCEQ Incident No. 258589

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 118



Subject: Location of sample collection-window

sill

Location: Citizen 88's Residence TCEQ Incident No. 258596

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 119



Subject: Location of sample collection-window

sill

Location: Citizen 89's Residence

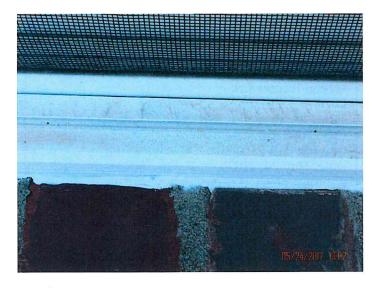
TCEQ Incident No. 258591

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



sil

Location: Citizen 90's Residence TCEQ Incident No. 258546

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEO Corpus Christi Regional Office

Photo No. 121



Subject: Location of sample collection-window

sill

Location: Citizen 91's Residence

TCEQ Incident No. 258572

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 122



Subject: Location of sample collection-window

screen framework

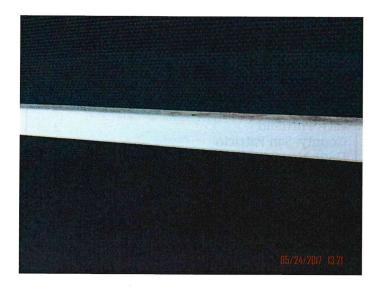
Location: Citizen 92's Residence TCEO Incident No. 258599

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



screen framework

Location: Citizen 93's Residence TCEQ Incident No. 258554

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 124



Subject: Location of sample collection-window

ledge

Location: Citizen 94's Residence TCEQ Incident No. 258581

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 125



Subject: Location of sample collection-outdoor

window air condition unit

Location: Citizen 97's Residence TCEQ Incident No. 258646

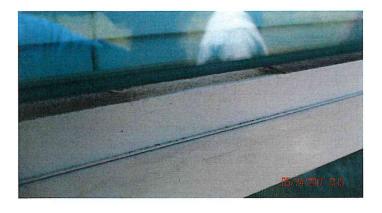
City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Corey Burke, Waste Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



ledge

Location: Citizen 98's Residence TCEO Incident No. 258570

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Corey Burke, Waste Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 127



Subject: Location of sample collection-window

sill

Location: Citizen 99's Residence TCEQ Incident No. 258575

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Corey Burke, Waste Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 128



Subject: Location of sample collection-window

ledge

Location: Citizen 100's Residence

TCEQ Incident No. 258580

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Corey Burke, Waste Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Sample No. 1706003-002;

southeast facing window sill Location: Citizen 101's Residence TCEO Incident No. 258626

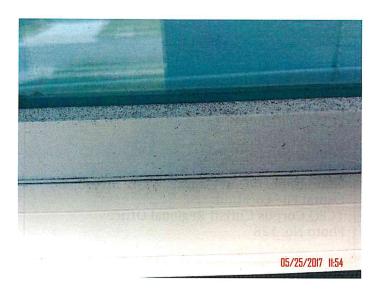
City: Portland County: San Patricio Date: May 25, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 130



Subject: Location of sample collection-window

sill

Location: Citizen 102's Residence

TCEQ Incident No. 258648

City: Portland County: San Patricio Date: May 25, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 131



Subject: Location of sample collection-window

ledge

Location: Citizen 103's Residence

TCEQ Incident No. 258660

City: Portland County: San Patricio

Date: May 25, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



ledge

Location: Citizen 104's Residence

TCEQ Incident No. 258996

City: Portland County: San Patricio Date: May 26, 2017

Photographer: Maria Sparks, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 133



Subject: Location of sample collection-window

ledge

Location: Citizen 105's Residence

TCEQ Incident No. 258669

City: Portland County: San Patricio Date: May 26, 2017

Photographer: Maria Sparks, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 134



Subject: Location of sample collection-window

sill

Location: Citizen 106's Residence

TCEQ Incident No. 258763

City: Portland County: San Patricio

Date: May 26, 2017

Photographer: Maria Sparks, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



ledge

Location: Citizen 110's Residence

TCEQ Incident No. 258764

City: Portland County: San Patricio Date: May 26, 2017

Photographer: Maria Sparks, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 136



Subject: Demonstration of magnetic property of the metallic particles in Citizen 111's pool

Location: Citizen 111's Residence

TCEQ Incident No. 258968

City: Portland

County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 137



Subject: Accumulation of metallic particles

settled on the bottom of the pool Location: Citizen 111's Residence

TCEQ Incident No. 258968

City: Portland

County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-back

patio table

Location: Citizen 111's Residence

TCEQ Incident No. 258968

City: Portland County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 139



Subject: Location of sample collection-front

window ledge

Location: Citizen 112's Residence

TCEQ Incident No. 258969

City: Portland County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 140



Subject: Location of sample collection-front

window sill

Location: Citizen 113's Residence

TCEQ Incident No. 258990

City: Portland

County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-garage

door seal

Location: Citizen 113's Residence

TCEQ Incident No. 258990

City: Portland

County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 142





Subject: Location of sample collection-front

window screen framework

Location: Citizen 114's Residence

TCEQ Incident No. 259004

City: Portland

County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 143



Subject: Location of Sample No. 1706004-001;

floor board inside a car

Location: Citizen 115's Residence

TCEQ Incident No. 259029

City: Portland

County: San Patricio

Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Sample No. 1706004-002;

outdoor garage light bulb

Location: Citizen 115's Residence

TCEQ Incident No. 259029

City: Portland County: San Patricio Date: May 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 145



Subject: Location of sample collection-front

window ledge

Location: Citizen 116's Residence

TCEQ Incident No. 259152

City: Portland County: San Patricio Date: June 2, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 146



Subject: Location of sample collection-front

window ledge

Location: Citizen 117's Residence

TCEQ Incident No. 259150

City: Portland County: San Patricio Date: June 2, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-front

window ledge

Location: Citizen 118's Residence

TCEQ Incident No. 259692

City: Portland

County: San Patricio Date: June 2, 2017

Photographer: Cindy Smith, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 148



Subject: Location of sample collection-front

window ledge

Location: Citizen 119's Residence

TCEQ Incident No. 259693

City: Portland

County: San Patricio Date: June 5, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 149



Subject: Accumulation of metallic particles

settled in the pool

Location: Citizen 120's Residence

TCEQ Incident No. 259694

City: Portland

County: San Patricio Date: June 5, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Demonstration of magnetic property of the metallic particles in Citizen 120's pool

Location: Citizen 120's Residence

TCEQ Incident No. 259694

City: Portland County: San Patricio Date: June 5, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 151



Subject: Location of sample collection-front

window sill

Location: Citizen 121's Residence

TCEQ Incident No. 259695

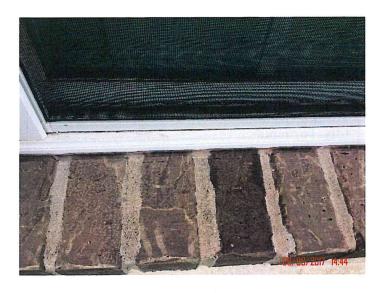
City: Portland County: San Patricio Date: June 8, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 152



Subject: Location of sample collection-front

window sill

Location: Citizen 122's Residence

TCEQ Incident No. 259742

City: Portland

County: San Patricio Date: June 8, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-front

window sill

Location: Citizen 123's Residence

TCEQ Incident No. 259752

City: Portland County: San Patricio Date: June 8, 2017

Photographer: Thomas Haney, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 154



Subject: Location of sample collection-front

window ledge

Location: Citizen 126's Residence

TCEQ Incident No. 260218

City: Portland

County: San Patricio

Date: June 13, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 155



Subject: Location of sample collection-outlet

box by front door

Location: Citizen 128's Residence

TCEQ Incident No. 260216

City: Portland

County: San Patricio

Date: June 13, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-front

window sill

Location: Citizen 128's Residence

TCEQ Incident No. 260216

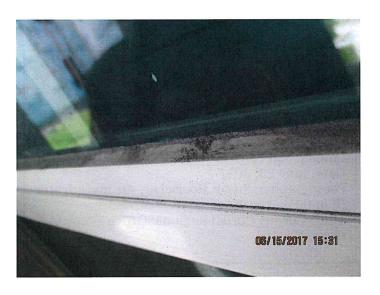
City: Portland County: San Patricio Date: June 13, 2017

Photographer: Ashley Scott, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 157



Subject: Location of sample collection-front

window ledge

Location: Citizen 129's Residence

TCEQ Incident No. 260253

City: Portland

County: San Patricio Date: June 15, 2017

Photographer: Jessica Fox, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 158



Subject: Location of sample collection-front

window ledge

Location: Citizen 130's Residence

TCEQ Incident No. 260266

City: Portland

County: San Patricio Date: June 15, 2017

Photographer: Jessica Fox, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-back

window ledge

Location: Citizen 133's Residence

TCEQ Incident No. 260562

City: Portland

County: San Patricio Date: June 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 160



Subject: Location of sample collection-front

window ledge

Location: Citizen 135's Residence

TCEQ Incident No. 260903

City: Portland

County: San Patricio

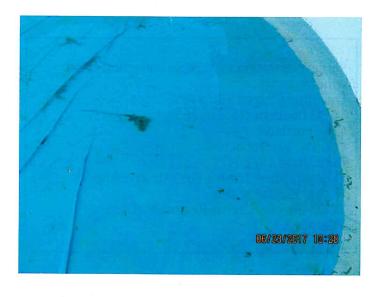
Date: June 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 161



Subject: Accumulation of metallic particles settled on the bottom of the children's pool

Location: Citizen 135's Residence TCEQ Incident No. 260903

City: Portland

County: San Patricio

Date: June 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Accumulation of metallic particles on

vehicle hood

Location: Citizen 136's Residence

TCEQ Incident No. 261418

City: Portland County: San Patricio Date: June 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 163



Subject: Location of sample collection-front

window sill

Location: Citizen 136's Residence

TCEQ Incident No. 261418

City: Portland

County: San Patricio Date: June 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 164



Subject: Location of sample collection-front

window sill

Location: Citizen 137's Residence

TCEQ Incident No. 261445

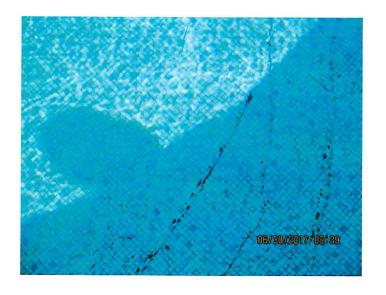
City: Portland

County: San Patricio Date: June 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Accumulation of metallic particles

settled on the bottom of the pool Location: Citizen 137's Residence

TCEQ Incident No. 261445

City: Portland County: San Patricio Date: June 30, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 166



Subject: Location of sample collection-side

window sill

Location: Citizen 138's Residence

TCEQ Incident No. 262147

City: Portland County: San Patricio Date: July 13, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 167



Subject: Location of sample collection-front

door

Location: Citizen 138's Residence

TCEQ Incident No. 262147

City: Portland County: San Patricio Date: July 13, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of sample collection-front

window ledge

Location: Citizen 140's Residence

TCEQ Incident No. 267252 City: Portland

County: San Patricio
Date: September 8, 2017
Photographer: Susan Hoelscher, Air Investigator

Digital File Location: TCEQ Corpus Christi Regional Office



ATTACHMENT 3 Laboratory Analysis Request No. 1705011

Total Pages: 10

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705011

Request Lead:Frank Martinez

southeast of the complainants' residences.

and southeast of the complainants' residence.

Field ID Number: RS2

Sampling Site: Suspected Source

Region: T14

Date Received: 5/19/2017

Facility(ies) Sampled	C	ity	County	Facility Type
La Quinta Plant Voestalpine	Po	ortland	San Patricio	Manufacturing
Sample(s) Received				11
Field ID Number: A Sampling Site: Complainant's Property Comments: Tape lift from the siding on the (CMP 1)	•		led: 05/16/17	pled by: Susan Hoelscher 17:15:00 Valid Sample: Yes utheast side of the residence.
Field ID Number: B Sampling Site: Complainant's Property Comments: Tape lift from an outside winder	_		led: 05/16/17	pled by: Susan Hoelscher 17:17:00 Valid Sample: Yes ence. (CMP 1)
Field ID Number: C Sampling Site: Complainant's Property Comments: Tape lift from an outdoor light	-		led: 05/16/17	oled by: Susan Hoelscher 17:38:00 Valid Sample: Yes esidence. (CMP 2)
Field ID Number: D Sampling Site: Complainant's Property Comments: Tape lift from a plastic (tan) sto			led: 05/16/17	oled by: Susan Hoelscher 17:40:00 Valid Sample: Yes idence. (CMP 2)
Field ID Number: E Sampling Site: Complainant's Property Comments: Tape lift from the front door (o 3)			ed: 05/16/17	oled by: Susan Hoelscher 17:51:00 Valid Sample: Yes at) side of the residence. (CMF
Field ID Number: F Sampling Site: Complainant's Property Comments: Tape lift from an outside windo	-		ed: 05/16/17	oled by: Susan Hoelscher 17:50:00 Valid Sample: Yes ence. (CMP 3)
Field ID Number: G Sampling Site: Complainant's Property Comments: Tape lift from an outdoor light			ed: 05/16/17	oled by: Susan Hoelscher 8:25:00 Valid Sample: Yes sidence. (CMP 4)
Field ID Number: H Sampling Site: Complainant's Property Comments: Tape lift from an outside windo			ed: 05/16/17 1	oled by: Susan Hoelscher 8:27:00 Valid Sample: Yes ence. (CMP 4)
Field ID Number: RSI Sampling Site: Suspected Source Comments: Bulk sample taken from a reme			ed: 05/17/17 (oled by: Susan Hoelscher 17:55:00 Valid Sample: Yes e of Voestalpine's property and

Laboratory Sample Number: 1705011-010RS

Comments: Bulk sample taken from a remet fines stockpile stored on a pad located on the north side of the Voestalpine's property

Sampled by: Susan Hoelscher

Date & Time Sampled: 05/17/17 08:00:00 Valid Sample: Yes

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705011

Sample(s) Received		
	Laboratory Sample Numbource Date of the from a unprocessed fines pellets stock putheast of the complainants' residence.	aber: 1705011-011RS Sampled by: Susan Hoelscher & Time Sampled: 05/17/17 08:05:00 Valid Sample: Yes spile stored on a pad located on the south side of Voestalpine
Field ID Number: RS4 Sampling Site: Suscpected S Comments: Bulk sample tak Voestalpine's pi		& Time Sampled: 05/17/17 08:12:00 Valid Sample: Yes ockpile stored on a pad located on the south side of
Requested Laboratory P	rocedure(s):	
Analysis: AP007MIC Environmental Sample Chara	acterization using Polarized Light Microsc	сору
Analysis: AP008MIC Sample Characterization usin	ng Scanning Electron Microscope with an	Energy Dispersive X-Ray Microanalysis Spectrometer
adverse health effects. I	For questions on the analytical proc update on the health effects evalua	measuring all compounds which might have cedures please contact the laboratory manager at ation of these data, please contact the Toxicology
Analyst:	Millim	Date: 5/26/17
Jeffrey Ketteman		
Laboratory Manager:	Frank Moutine	Date: 5/26/17
. Fr	ahk Martinez	

Laboratory Analysis Results Request Number: 1705011

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705011-001

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC

Analysis completed: 5/26/2017

Sample A was lightly loaded. The sample contained between 51 and 60% metal particles. The metal particles ranged in coloration from black to reddish. This coloration was consistent with all the field samples and reference samples 1705011-010RS, 011RS, and 012RS. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample also contained between 31 and 40% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, yellow paint overspray, plant stellate hairs, and pollen.

Sample Number: 1705011-001

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, potassium, calcium, iron, and zinc. The primary peaks in the xray spectrum were oxygen, aluminum, silicon, chlorine and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, silicon, calcium, and iron. The x-ray spectrum of the second metal particle is consistent with the reference samples submitted with this request number, 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as limestone and feldspar.

Sample Number: 1705011-002

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample B was lightly loaded. The sample contained between 41 and 50% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 21 and 30% common clays and minerals and between 5 and 20% fungal spores. Other particles present in quantities less than 5% included plant stellate hairs, plant trichomes, pollen, and rubber dust.

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Request Number: 1705011

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705011-002

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, silicon, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with this request number, 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as limestone and quartz.

Sample Number: 1705011-003

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample C was lightly loaded. The sample contained between 5 and 20% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 41 and 50% common clays and minerals and between 31 and 40% carbonaceous material. Other particles present in quantities less than 5% included fungal spores, and plant stellate hairs.

Sample Number: 1705011-003

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, magnesium, aluminum, silicon, potassium, titanium, and iron. The primary peaks in the x-ray spectrum were oxygen, aluminum, silicon, titanium, and iron.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspar and quartz.

Sample Number: 1705011-004

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample D was moderately loaded. The sample contained between 51 and 60% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 31 and 40% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, plant stellate hairs, and pollen.

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> Attachment 3 Inv. No, 1415945

Request Number: 1705011

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705011-004

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, calcium, and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with this request number, 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspar and quartz.

Sample Number: 1705011-005

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample E was lightly loaded. The sample contained between 61 and 71% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 21 and 30% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, plant fibers, and pollen.

Sample Number: 1705011-005

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, silicon, chlorine, calcium, and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with this request number, 1705011.

Sample Number: 1705011-006

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample F was lightly loaded. The sample contained between 61 and 70% metal particles. Metal particles (reddish) ranged in size from 1 to 800 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 5 and 20% common clays and minerals, and between 5 and 20% plant fibers. Other particles present in quantities less than 5% included pollen.

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> Attachment 3 Inv. No. 1415945 Page \bigcirc of 1/2

Request Number: 1705011

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705011-006

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC

Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, sodium, chlorine, and iron.

EDS analysis of a second metal particle showed elements oxygen, aluminum, silicon, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with this request number, 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspar and quartz.

Sample Number: 1705011-007

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample G was lightly loaded. The sample contained between 21 and 30% metal particles. Metal particles (reddish) ranged in size from 1 to 700 microns. Metal particles (black) ranged in size from 5 to 300 microns. The sample contained between 41 and 50% insect parts and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included pollen.

Sample Number: 1705011-007

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, chlorine, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

The x-ray spectrum of the metal particle is consistent with the reference samples submitted with this request number, 1705011.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, sulfur, chlorine, potassium, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, aluminum, silicon, sulfur, and iron.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz.

Sample Number: 1705011-008

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample H was lightly loaded. Metal particles accounted for over 80% of the particle coverage. Metal particles (reddish) ranged in size from 1 to 700 microns. Metal particles (black) ranged in size from 5 to 400 microns. The sample contained between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, and plant stellate hairs.

TCEQ laboratory customer support may be reached at Frank. Martinez@tceq.texas.gov

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> Attachment 3 Inv. No, 1415945 Page 6 of 10

Laboratory Analysis Results Request Number: 1705011

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705011-008

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were calcium and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, silicon, calcium, and iron. The primary peak in the x-ray spectrum was iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with this request number, 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz.

Sample Number: 1705011-009RS

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample RS1 was a bulk sample. Metal particles accounted for over 80% of the particle coverage. The remet pellets consisted of large black metal particles over 1cm in diameter.

Sample Number: 1705011-009RS

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a remet pellet (metal particle) showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second remet pellet (metal particle) showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

Sample Number: 1705011-010RS

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample RS2 was a bulk sample. Metal particles accounted for over 80% of the particle coverage. The remet fines consisted of metal particles that varied in coloration from black to reddish. Metal particles (reddish) ranged in size from 1 to 5000 microns. Metal particles (black) ranged in size from 5 to 400 microns. Other particles present in quantities less than 5% included common clays and minerals.

Sample Number: 1705011-010RS

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a remet fines particle (metal particle) showed elements carbon, oxygen, magnesium, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, calcium,

EDS analysis of a second remet fines particle (metal particle) showed elements carbon, oxygen, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

TCEQ laboratory customer support may be reached at Frank. Martinez@tceq.texas.gov

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> Attachment 3 Page __/_ of /

Request Number: 1705011

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705011-011RS

Analysis began: 5/22/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 5/26/2017

Sample RS3 was a bulk sample. Metal particles accounted for over 80% of the particle coverage. The unprocessed fines pellets consisted of metal particles that varied in coloration from black to reddish. Metal particle (reddish) ranged in size from 1 to 5000 microns. Metal particles (black) ranged in size from 5 to 1000 microns.

Sample Number: 1705011-011RS

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a unprocessed fines pellet (metal particle) showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a second unprocessed fines pellet (metal particle) showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

Sample Number: 1705011-012RS

Analysis began: 5/22/2017

Analyst: Jeffrey Ketternan

SOP: AP007MIC Analysis completed: 5/26/2017

Sample RS4 was a bulk sample. Metal particles accounted for over 80% of the particle coverage. The HBI fines consisted of metal particles that varied in coloration from black to reddish. Metal particles (reddish) ranged in size from 1 to 5000 microns. Metal particles (black) ranged in size from 5 to 400 microns.

Sample Number: 1705011-012RS

Analysis began: 5/23/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 5/26/2017

EDS analysis of a HBI fines (metal particle) showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a second HBI fines (metal particle) showed elements carbon, oxygen, aluminum,

silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

TCEQ laboratory customer support may be reached at Frank. Martinez@tceq.texas.gov

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> Attachment 3

Request Number: 1705011 Analysis Code: AP008MIC

Qualifier Notes:

. 1 1

- ND not detected
- NQ concentration can not be quantified due to possible interferences or coelutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
- SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
- INV Invalid.
- J Reported concentration is below SDL.
- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.
- E Reported concentration exceeds the upper limit of instrument calibration.
- M Result modified from previous result.
- T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control.
- H Not all associated hold time specifications were met. Data may be biased.
- C Sample received with a missing or broken custody seal.
- R Sample received with a missing or incomplete chain of custody.

 I Sample received without a legible unique identifier.

- G Sample received in an improper container.
 U Sample received with insufficient sample volume.
- W Sample recevied with insufficient preservation.

TCEQ laboratory customer support may be reached at Frank.Martinez@tceq.texas.gov

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Susan Hoelscher

From:

Jaydeep Patel

Sent:

Friday, May 26, 2017 2:20 PM

To:

Kelly Ruble; Hattie Waites; Susan Hoelscher Frank Martinez; Sonny Lopez; Ashley Scott

Cc: Subject:

Request Report 1705011

Attachments:

1705011.pdf

Good afternoon Kelly,

Attached is your PDF file for Request Report 1705011.

You will not receive a hard copy.

Thanks,

OAL Work Leader, Monitoring Division Texas Commission on Environmental Quality Jaydeep.Patel@tceq.texas.gov 512-239-2257



ATTACHMENT 4 May 17, 2017 Reference Sample Photographs

Total Pages: 2

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017



Subject: Location of Reference Sample No.

1705011-009RS; remet pellets

Location: North side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: May 17, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 1



Subject: Location of Reference Sample No.

1705011-010RS; remet fines

Location: North side of Voestalpine's property

Direction: Facing east

City: Portland

County: San Patricio Date: May 17, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 2



Subject: Location of Reference Sample No. 1705011-011RS; fines unprocessed pellets Location: South side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: May 17, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Reference Sample No.

1705011-012RS; HBI fines

Location: South side of Voestalpine's property

Direction: Facing west

City: Portland County: San Patricio Date: May 17, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 4



Subject: Bulk pile of HBI fines (Reference

Sample No. 1705011-012RS)

Location: South side of Voestalpine's property

Direction: Facing west

City: Portland County: San Patricio Date: May 17, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



ATTACHMENT 5 Process Description and Safety Data Sheets

Total Pages: 38

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Susan Hoelscher

From:

Sent: To: Wednesday, May 17, 2017 12:57 PM

Susan Hoelscher; kelly.ruble@tceq.tx.gov

Subject:

RE: Voestalpine Dust Complaint Investigation May 2017

Attachments:

Safety data sheet – Pellets - BBS.PDF; TWG138 - Iron ore agglomerates SDS LKAB iron ore pellets 2017.pdf; 20160428_Vale SDS Agglomerates_PelletsRH20.pdf; 20150505

_IOCC_MSDS SAP and DR.PDF; HBI.PDF

Susan and Kelly,

Attached are the SDS sheets for the iron pellets that we have received here on our site. I have also included the SDS sheet for our HBI that Susan requested. Below is a description of our plants operations. I hope that this information is of some assistance to you.

Also, I will remain as the single point of contact for you until Shannon Parham returns to the office next week. Please feel free to contact me if you have any questions.

The La Quinta Plant consists of Direct Reduced Iron (DRI) and Hot Briquetting (HBI) operations. The general process at the facility includes the conversion of iron oxide pellets into iron pellets that are pressed into iron briquettes. The DRI process consists of two main components, a Reformer (to produce the reducing agent) and the DRI reactor (where the reaction occurs). The DRI process converts pre-processed iron oxide pellets into highly metallized iron in the form of DRI or hot briquetted iron (HBI), which are ideal feed materials for high quality steelmaking.

The facility consists of a gantry

crane for loading and unloading on the dock, oxide transfer points, an oxide day bin, oxide tower transfer, furnace charge hopper loading silos, a charge hopper, the reformer main flue ejector stack, furnace dedusting, briquetter dedusting, a flare for hot pressure relief venting, a hot briquetted iron (HBI) cooling conveyor, an HBI pile, fines storage, process water degassers, and a salt water cooling tower.

Iron Oxide Storage and Handling

Direct Reduction (DR) grade pellets are delieved in the surge bin at the port. After weighing the pellets, a conveyor transports the pellets to the pellet pile. The pellet pile is equipped with a stacker/reclaimer and will maintain a sufficient supply for one month of operation. The pellets are weighed and transferred to the oxide day bins. The day bins act as a buffer of prepared oxide that is fed to the shaft furnace.

The day bins then discharge to a screening operation to separate the offspecification fractions from the desired 6-20 mm oxide fractions. The desired oxide fractions are discharged on the oxide transfer conveyor. The offspecification material is screened further to identify usable fractions.

The material on the oxide transfer conveyor is weighed and discharged onto the furnace feed conveyor. The furnace feed conveyor is a vertical,

pocket type conveyor with flexible sidewalls that deliver material to the top of the shaft furnace structure. The closed furnace feed conveyor discharges through a riffler to the charge hopper at the top of the shaft furnace. The oxide coating station enables feeding of coating directly to the charge hopper of the shaft furnace. The coating is a solid material consisting of cement, burnt lime, hydrated lime and hydrated dolomite to assist in the reaction process. These materials are maintained in individual silos. A weight indicator in the charge hopper keeps the operator informed of the quantity of feed in the charge hopper. All process operations within the Iron Oxide Storage and Handling system are routed to various baghouses for the control of particulate emissions. The storage pile and associated operations are controlled with fugitive suppressants.

Product Material Handling

The material is transferred from the briquette cooling conveyors to the HBI conveyors, which are equipped with product scales. The HBI product is transported to the product screening station 1 where it is separated into product fines (0-6.35mm) and HBI (6.35-120mm). The fines are fed into a ground floor product fines bunker, while the HBI is weighed and transported on the product collection conveyor to the stacker conveyor for storage. The HBI product storage has a capacity of 100,000 tons per pile The HBI is reclaimed from the HBI product storage and transported via conveyor to the product screening station 2, where it is screened; the HBI is weighed and transported via conveyor to the port.

All process operations within the Product Material Handling system are routed to various baghouses for the control of particulate emissions. The storage pile and associated operations are controlled with fugitive suppressants.

Thank you,

Timothy Vanlandingham Head of Safety, Security and Emergency Management

voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, TX 78374, USA Cell +1 361 800 1669

http://www.voestalpine.com/texas

voestalpine - One step ahead.

From: Susan Hoelscher [mailto:Susan.Hoelscher@tceq.texas.gov]

Sent: Wednesday, May 17, 2017 11:35 AM

To: Vanlandingham Tim

Subject: RE: Voestalpine Dust Complaint Investigation May 2017

Tim,

Attached is the 2nd set of photos.



SAFETY DATA SHEET - IRON ORE PELLETS - BBS

SECTION 1 - IDENTIFICATION

		Emergency phone.	1-760-476-3962 (code 333211)
Manufacturer:	na Canada CD	REACH number.	1-2119474335-36-0005
ArcelorMittal Mining Canada GP		UN number.	N.A.
	2.	Chemical name.	Iron ore pellets
Address.	24 Blvd. Des Îles Port-Cartier (Quebec) G5B 2H3 418-766-2000	Commercial name and synonyms.	Low silica acid pellets – BBS
72		Chemical family.	Iron ore
Use.	Used as the iron feedstock in direct reduction process (DRI) for steel production.		Cooked blend of iron ore, dolomite, bentonite and limestone, the main component is Fe ₂ O ₃ .

SECTION 2 - HAZARDS IDENTIFICATION

This product is not a hazardous material with the HPR classification criteria.

Iron ore and pellets are inert solids and do not meet the requirements for classification as dangerous under both dangerous substances EU (67/548 / EEC) Directive and the other based on the classification, labeling and packaging of substances and mixtures (CLP) Regulations (EC 1272/2008).

None of the chemicals in this product are considered highly hazardous by OSHA.



Respiratory sensitization.



Eye irritation.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS N°	DL50	CL50	TLV (Units)	Substance	CAS N°	DL50	CL50	TLV (Units)
Fe ₂ O ₃	1309-37-1	N.D.	N.D.	5 mg/m³	CaO	1305-78-8	N.D.	N.D.	2.0
SiO ₂ (crys)	14808-60-7	N.D.	N.D.	0.1 (RD)	MgO	1309-48-4	N.D.	N.D.	10.0
Al ₂ O ₃	1344-28-1	N.D.	N.D.	10.0	MnO	1344-43-0	N.D.	N.D.	10.0
TiO ₂	13463-67-7	N.D.	N.D.	10.0	P ₂ O ₅	1314-56-3	N.D.	N.D.	10.0

SECTION 4 - FIRST AID MEASURES

Inhalation.	Move victim to a well ventilated area and consult medical staff.	
Eye contact.	Flush eyes with water for at least 10 minutes or until the product are removed. If irritation persists, consult medical staff.	
Skin contact.	The product does not irritate the skin, wash with soap and water.	
Ingestion.	If swallowed, rinse mouth and drink plenty of water. Consult medical staff immediately.	

SECTION 5 - FIREFIGHTING MEASURES

Flash point.	N.A.
T° Auto-ignition.	N.A.
Lower explosion limit.	N.A.
Upper explosion limit.	N.A.
Fire / explosion.	This product is not flammable.
Extinguishing media.	If product is involved in fire, use any extinguishing media appropriate to surrounding.
Special equipment.	Wear self-contained breathing apparatus with a full face mask. Wear gloves and appropriate protective clothing.
NFPA 704 rating.	Health = 2; Inflammability = 0; Instability/Reactivity = 0; Special notices = N.A.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Action to be taken when the material is discharged.	No special precautions, remove material with suitable equipment depending on the quantity spilled.
---	--

SECTION 7 - HANDLING AND STORAGE

	Storage and iron ore product handling can lead to releases of dust drift.
Precautions in handling and storage.	Minimize dust generation using shovels and mechanical equipment instead of hand tools. Ideally a wet sweep or vacuum suction system should be used to remove dust when cleaning. If the environment is dusty, appropriate respiratory protection approved must be worn (see Section 8).
-	Usually stored in heaps outdoors and in dry conditions, iron ore can be kept moist by spraying water to minimize dust emissions. The uses of surfactants, wetting agents, etc., constitute another method for removing the dust.
Angle of repose: 27 degrees.	Bulk density: 2.09 nt/m ³

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory tracts.	Wear respiratory protective equipment if concentration of smoke or dust in the workplace is higher than the TLV (5 mg/m³, value for fumes and dust, as Fe (iron)). Respiratory protective equipment must be selected, adjusted, maintained and inspected in accordance with NIOSH or equivalent regulations.
	Occupational exposure limits (OEL) should be followed in accordance with regulations applicable at the place of use of the product.
Eyes.	Wear eye protection device if there is risk of dust exposure. The selection of eye protection depends on the nature of work to be done and if applicable, the type of respirator used. Eye and face protection devices must comply with regulations applicable to the place of use of the product.
Skin.	There are no specific data regarding skin protection with this product. Wear skin protective equipment if necessary. The selection of this equipment depends on the nature of the work involved or if required by the regulations applicable at the place of use of the product. If there is a potential skin contact, consult your supplier for recommendations on the type of gloves suitable.
Other control measures.	Automated systems and use of mechanical equipment is recommended to minimize the risk of exposure by avoiding the presence of operators under normal circumstances. The use of water must be considered in conjunction with the use of mechanical means to reduce the risk of dust disturbance.

SECTION 9 - PHYSICAL AND CHEMICALS PROPERTIES

SECTION 3 - ITTIOIC	71271112 01	121111107120					
Melting Point (° C).		> 1500		Specific gravity H₂O = 1.		5.0	
Vapor pressure (mm Hg).		N./	۹.	Volatile fraction (% weight).		< 0.03	
Vapor density (air=1). N.A		٩.	Evaporation rate (ether=1).		N.A.		
Solubility in water. Insoluble.							
Physical state. Fine solid			material, color gra	ay/black, without app	oreciable odor.		
			Ingredients	(weight %)	÷ 2		
Fe ₂ O ₃	Fe ₂ O ₃ 95 – 97		MgO	0.2 - 0.4	Na₂O	Max. 0.06	
SiO ₂	Max. 1.8		TiO ₂	Max. 0.3	K₂O	Max. 0.04	
Al_2O_3	0.4 - 0.6		MnO	Max. 0.06	S	Max. 0.02	
CaO	CaO 0.3 – 0.8		P ₂ O ₅	Max. 0.02			

SECTION 10 - STABILITY AND REACTIVITY

Stability.	This product is stable.
Incompatibility.	This product reacts with aluminum, magnesium or hydrazine powder, with ethylene oxide, carbon monoxide and hydrogen peroxide.
Hazardous decomposition products.	Some steam iron oxide can be released during high-temperature melting. Fumes including iron trioxide may be released during certain industrial processes, for example, in foundries and in electric arc welding.
Polymerization.	Can not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Inhalation.	Overexposure to iron ore dust may cause possibility siderosis (benign pneumoconiosis resulting from the accumulation of dust or iron smoke in the lungs. This buildup is asymptomatic). Overexposure to particles very thin or fine particles of crystalline silica can cause silicosis.
Contact with skin and eyes.	The product does not cause skin corrosion or damage to eyes.
Carcinogenic effects.	ACGIH rating: Substance not classifiable as carcinogenic to humans (Group A4).
Ingestion and toxicity.	No harmful effects on humans or animals are known.

SECTION 12 - ECOLOGICAL INFORMATION

Iron ore products are insoluble, no harmful effects of toxicity on humans or animals are known. The spill causes physical effects (suspended solids).

Iron ore products are insoluble, so in general (abiotic) degradation is a non-existing process.

Aqueous solubility of iron ore products is so low that the mobility in the soil will not be displayed.

SECTION 13 - DISPOSAL CONSIDERATION

Iron ore products can always be recycled in the process upstream or by a third party. The product can be recovered for reuse, in the event of elimination, do as provided by local, municipal, provincial and federal laws and regulations.

SECTION 14 - TRANSPORT INFORMATION

Iron ore products are not classified as hazardous. Observe the transport of bulk codes in force provided by local, municipal, provincial and federal laws and regulations by type (ship, truck, etc.) carrier.

SECTION 15 - REGULATORY INFORMATION

The production of iron ore and iron oxide pellets is subject to local, municipal, provincial and federal laws and regulations.

Revised Statutes QUEBEC: Law on compensation for victims of asbestosis and silicosis in mines and quarries (L.R.Q., chapter I-7).

Regulations on health and safety (ROHS), occupational exposure limits for air contaminants. Weighted average exposure value (TWA) 5 mg/m³.

SECTION 16 - OTHER INFORMATION

The information herein is based according to the available data and current knowledge but do not constitute guarantees of product properties and do not establish a legally valid contractual relationship. Its content is intended to provide guidance on the appropriate precautions handling and proper use of the product. Although certain hazards are described, we cannot guarantee that there are none others. It is the responsibility of the user to ensure that use of the product is in accordance with local, municipal, provincial and federal laws and regulations. The user is responsible for determining whether the product is suitable for the use intended purposes.

Acronyms and Abbreviations: N.A.: Not applicable.

N.D.: Not available.

ACGIH: American Conference of Governmental Industrial Hygienists.

NIOSH: National Institute for Occupational Safety and Health.

NFPA: National Fire Protection Association.

OSHA: Occupational Safety and Health Administration.

HPR: Hazardous Products Regulations.

REACH: Rules on the Registration, Evaluation, Authorization and Restriction of Chemicals

in the regulatory framework of the European Union (EU) on chemical products.

TWA: Total Weighted Average (permissible exposure limit; Occupational Safety and Health

Administration).

UN Numbers: Four digits numbers that identify hazardous substances in part of the

international transport of UN Committee.

Normand Paradis - Chief, Quality Assurance and Projects

Revision date: 2015/07/31

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Iron Ores, Agglomerates

Jan 2017

1. Identification of the Substance and company

1.1

Other names:	Iron ore pellets, pellet fines,	REACH Registration No.:	01-2119474335-36-0004
EINECS no.:	265-996-8	CAS no.:	65996-65-8

1.2

Iron ore pellets are composed essentially of di-iron trioxide, Fe₂O₃ >90% with toxicologically insignificant amounts of gangue constituents comprised of the silicates and oxides of calcium, silicon, magnesium and aluminium. The product of agglomerating iron ore fines, concentrates and other iron-bearing materials at 1100 to 1300°C. Iron ore pellets are used as a feedstock in blast furnaces and also in other forms of iron production. Pellet fines or chips are the product of screening pellets prior to shipment and are typically used as feedstock for production of iron sinter.

Uses: SU14; PC7, PC19; PROC 2,8b, 14, 22, 26; ERC1 (see section 16 for detailed descriptions)

1.3

1.0		
Company:	LKAB, Box 952, 971 28 Luleà, Sweden	
Telephone:	+46 920 380 00	
Normal Hours:	8:00 am to 16:00 pm	
Email: receptionen.koncernkontoret@lkab.com		

1.4

Emanageman	+46 970 762 80
Emergency:	740 970 702 00

2. Hazards Identification

2.1

Iron ores, agglomerates are inert solids and do not meet the requirements for classification as dangerous under both the EU Dangerous Substances (67/548/EEC) Directive and secondly according to the Classification, Labelling and Packaging of substances and mixtures (CLP) regulations (EC 1272/2008).

The principal risk to human health presented by iron ore agglomerates is dust relating to the concentration of dust in the air acting as a poorly soluble inert nuisance dust. The higher the concentration of dust the greater the risk of irritation to the respiratory system and mechanical irritation to the eyes. Iron oxide pellets may contain respirable crystalline silica (RCS). Experience along with testing shows that in practice no values of RCS content in iron ore agglomerates are found above 0.1%. Concentrations above 1.0% trigger a classification as STOT RE 2 for the silicosis hazard. Therefore this does not trigger a classification for this substance.

2.2

No label required, no signal word required.

2.3

There are no further hazards for the substance iron ore agglomerates.

3. Composition / information on ingredients

3.1

Iron ores, agglomerate composition is usually expressed in terms of its bulk composition the typical range is shown in the table below. It is conventional to represent the bulk composition of oxide materials, such as minerals, ores and refractory products, in terms of the simple oxides of the constituent elements. However, this does not imply that the product is composed of such simple compounds it is simply a convenient means of representing the overall composition of the material. See table below.

Substance	Range (%) by weight	Classification (Dangerous Sub Dir)	Classification (CLP Regs)
Fe ₂ O ₃	>80.0	Not classified	Not classified
Fe	60.0-69.0	Not classified	Not classified
SiO ₂	<10.0	Not classified	Not classified
CaO	<8.0	Not present as CaO so not classified	Not present as CaO so not classified
MgO	<5.0	Not classified	Not classified
Al ₂ O ₃	<3.0	Not classified	Not classified
Р	<0.2	Not classified	Not classified
S	S <0.1		Not classified
Free moisture at 105°C	0-6.0	Not classified	Not classified

4. First aid measures

41

Skin contact:

None required, just maintain good level of hygiene by washing.

Eye contact:

Irritation. Wash the eye with running water for at least ten minutes. Seek medical advice if irritation persists.

Inhalation: Ingestion: Physical irritation. Remove to fresh air. None required.

For eye exposure soreness and irritation are the main symptoms. For inhalation coughing is the main symptom. Remove the exposed operator to an area away from high dust levels.

43

Not applicable for this substance.

Fire fighting measures

Iron ores, agglomerates is non-flammable and has a high melting point of >1000°C.

5.1

Not flammable so not applicable for this substance.

5.2

Not flammable so not applicable for this substance.

5.3

Not flammable so not applicable for this substance.

6. Accidental release measures

Contain and collect any spillage of this solid and return to the suitable storage facility. If the solid is dry and dusty wetting should be used to reduce wind entrainment of dust particles.

7. Handling and Storage

7.1 Handling

Use automated mechanical equipment to handle iron ores, agglomerates so that personal contact is minimised. Minimise generation of dust by using mechanical shovels and equipment instead of handheld tools. Ideally vacuum suction systems / extraction systems should be used to remove dust when cleaning areas of plant. If the environment is dusty then suitable and approved respiratory protection should be worn (see section 8).

7.2 Storage

Generally stored in stockpiles in open air during dry conditions the iron ores, agglomerates may need to be kept damp through water spraying to minimise dust release through wind entrainment. Use of surfactants, wetting agents, etc. are another method of dust suppression. Fixed sided buildings or barriers could also be erected to prevent release of dust. At the blast furnace covered bunkers are the most effective method of storage.

8. Exposure controls and personal protection

8.1 Control parameters (Occupational Exposure Limits (OELs))

Current OELs (GESTIS International Limit Values Institut fuer Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA))

	Substance						
Country in EU with OEL for the	Iron oxide (Fe ₂ O ₃ & FeO)		Dust inhalable		Dust respirable		
relevant substance	8 hr TVVA (mg/m³)	STEL (mg/m³)	8 hr TWA (mg/m³)	STEL (mg/m³)	8 hr TWA (mg/m³)	STEL (mg/m³)	
Austria	5.0 (resp)	10.0 (resp)	10.0	20.0	5.0	10.0	
Belgium	5.0		10.0	7-	3.0		
Denmark	3.5	7.0	10.0	20.0			
France	(10.0		5.0		
Germany (AGS)			10.0	20.0	3.0	6.0	
Germany (DFG)			4.0		1.5		
Hungary	6.0 (resp)		10.0		6.0		
Poland	5.0	10.0					
Spain	5.0		10.0		3.0		
Sweden	3.5		10.0		5.0		
United Kingdom	5.0		10.0		4.0		
TWA - Time Weighted Average mea	asured over an	8 hour period					
STEL - Short Term Exposure Limit \	√alue – 15 minu	ute duration					
Resp - Respirable fraction of dust							

8.2 Control Measures

Automated systems are recommended to minimise the risk of exposure by avoiding the need for the presence of operators under normal circumstances. The use of mechanical equipment such as vacuum systems or other extraction methods should take precedence over manual work. For large amounts of built up dust the use of machinery, such as a small mobile mechanical shovel units could be used to collect and transport dust to a skip. The use of water suppression should be considered in conjunction with the use of mechanical methods so as to reduce the risk of dust disturbance.

If it is not feasible to use vacuum methods or machinery, then the manual use of shovels should be considered as a last resort to remove settled dust. If there is a risk of disturbing dust and creating high airborne dust concentrations then, as a last resort, the wearing of suitable and approved respiratory protective equipment should be implemented. Ori-nasal respirators fitted with a P3 filter (EN149: FFP3S) may be used when dust levels are high, the manufacturer's directions for use must be followed at all times to achieve the correct and proper face fit.

Eye protection such as safety glasses / goggles of an approved standard could be used to prevent dust contact with the eyes.

From an environmental perspective, the storage and handling of iron ores, agglomerates can give rise to releases of dust as drift. Airborne dusts may originate from stockpiles and conveyor belts. Dust suppression techniques include the orientation of materials in the direction of the prevailing winds and the use of water sprinkler systems.

9. Physical and chemical properties

Property	Value used
Physical State at 20°C/ 1013 hPa	Solid
Melting point	>1000 °C at 1013 hPa
Boiling point	Not applicable, iron ore agglomerates have a melting point of >300°C
Relative density	5.0 g/cm³ at 20°C
Vapour pressure	Not applicable for iron ore agglomerates due to high melting point >1000°C
Surface tension	Not applicable, iron ore agglomerates are inorganic solids with very low aqueous solubility
Water solubility	0.05 μg/L at 25 °C, the aqueous solubility of iron ore agglomerates is so low that it does not become bioavailable to humans or ecosystems
Partition coefficient (Kow4)	Not applicable, inorganic
Flash point	Not applicable, iron ore agglomerates are inorganic solids with a melting point >1000°C
Flammability	Non flammable
Explosive properties	Non explosive
Oxidising properties	No
Granulometry	Iron ore agglomerates are produced as a hard agglomerate consisting of spheres of diameter > 8 mm. The substance as used therefore does not contain particles in the inhalable size range. Pellet size is 5.0-20.0mm, Pellet fines size is <10.0mm
Stability in organic solvents	Stable in organic solvents
Dissociation constant	Insoluble
Viscosity	Solid

10. Stability and reactivity

Iron ores, agglomerates are stable and do not react violently or dangerously with other substances under normal conditions.

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11. Toxicological information

The main route of exposure to iron ores, agglomerates is via inhalation of the dust which may be produced through abrasion, although oral exposure could also occur. Iron ores, agglomerates are inert solids and not toxic. The principal risk to human health presented by iron ores, agglomerates dust is related to the concentration of dust in the air acting as a nuisance dust. The higher the concentration of dust the greater the risk of irritation to the respiratory system and mechanical irritation to the eyes.

Acute toxicity

Iron oxides are practically insoluble in water and, hence, they will not pass through the skin. The aqueous layer of the skin is not acidic enough to give rise to the formation of iron ions. It has been demonstrated that even at rather low pH levels, the solubility is very low. Without the chemical conversion into soluble iron ions, systemic exposure will be negligible, and toxicologically insignificant.

Certain studies have typically shown that after exposure to iron oxide via inhalation, a recruitment of pulmonary macrophages in the lungs was observed, indicating the activation of the main mechanism for pulmonary clearance of such insoluble particles. Fe₂O₃ particles were observed to be phagocytosed by these macrophages. Such elevations tend to decrease rapidly and usually reach control levels some days post-exposure. According to the authors of several of these studies, the effects are first and foremost non-specific reversible responses to an increased dust burden in the lung, clearly associated with the 'particle effect'. Beck et al. (1982) state 'we do not think the increases seen after exposure to iron oxide in our system are precursors of chronic pulmonary damage, based on both published data on hamsters (Zaidi, 1969) and on our preliminary histopathological examination of lung tissue from exposed hamsters'.

No classification is required for acute toxicity for oral, dermal and inhalation exposure with values of LD50 (oral): 10,000 mg/kg bw and LC50 (inhalation): 2100 mg/m³ air recorded which are far beyond any classification setting.

Skin corrosion / irritation

As iron oxides are practically insoluble in the aqueous layer on the skin, exposure to iron ions will be negligible, which means that irritating effects of dissolved iron can be ruled out. Iron ores, agglomerates along with other iron oxides typically behave as poorly soluble particles and can be seen as not irritating or not corrosive to the skin.

Eye damage / irritation

If any damage to the eye occurs, this would most likely be due to mechanical damage, and thus, not related to the chemical composition of the substance itself. For instance, potential occupational exposure of the eye to this substance is very common in manual work. Iron ores, agglomerates along with other iron oxides typically behave as poorly soluble particles and can be seen as not chemically irritating or not chemically corrosive to the eyes. Irritation or damage can only occur by mechanical means.

Respiratory / Skin sensitisation

Iron ores, agglomerates along with other iron oxides typically behave as poorly soluble particles and can be seen as not sensitising to the respiratory system or the skin. Skin contact with rust, which can contain several kinds of iron oxides, has been very common since time immemorial in everyday life of humans. However, skin sensitisation owing to dermal contact with rust has not been reported in literature as a recognised problem. Moreover, as iron oxides are practically insoluble in the aqueous layer of the skin, exposure to iron ions will be negligible, which means that skin sensitisation by dissolved iron can be ruled out.

Germ cell mutagenicity

Owing to the lack of solubility of iron oxides, genetic toxicity is not expected, unless the particles are phagocytosed by the cells. This can be ruled out in the case of bacterial assays (Ames test), since phagocytosis does not occur. Regarding the mammalian cell mutagenicity, Fe₃O₄ particles were indeed observed within the cell in the chromosome aberration test but still, no mutagenic response was exerted. The aforementioned result can also be expected when other iron oxide particles are tested. Particle size is a determinative factor; large iron oxide particles, produced by abrasive techniques, will not enter the mammalian cell and thus iron ores, agglomerates should not be seen as a mutagenic substance.

Carcinogenicity

The assessment of cancer risk due to pure exposure to iron oxides alone is difficult, since most industrial activities which may give rise to iron oxide exposure generate mixed exposures containing several different chemicals and dusts, or radiation. While excess risks of lung cancers have been reported in epidemiological studies of iron ore miners, foundry workers, steel workers and welders, industrial settings where exposure to iron oxides were involved, the majority of the studies were not able (or did not intend) to separate iron oxide exposure from other exposures to known or suspected carcinogens often present at the same settings or same workplaces.

Four epidemiological studies of good quality have been conducted, which either tried to separate iron oxide exposure from other exposures (Moulin et al. 2000 and Bourgkard et al. 2009 in the iron and steel industry) or which have been conducted under circumstances in which only low levels of exposure to other agents were present (Axelson et al. 1979 among workers exposed to iron oxide during production of sulphuric acid from pyrite and Lawler et al. 1985 among iron-ore miners). These studies, specifically addressing the affect of iron oxide on lung cancer, did not show any risk of lung cancer associated with exposure to iron oxides.

Institutions like IARC (1987) or ACGIH (2006) have reviewed the available information regarding the carcinogenicity of iron oxides and found iron oxides not to be a carcinogen.

Reproductive toxicity

No evidence of any effects. Human exposure to iron oxides occurs via skin contact with large solid objects, or via the inhalation or ingestion (primary or secondary) of small particles (dusts). Based on the physico-chemical properties of iron oxides, any significant systemic exposure upon skin contact can be deemed unlikely. With respect to the oral and inhalation (particles are ingested after clearance from the respiratory tract) route, after ingestion (primary or secondary), the oxides will not be dissolved in the gastric juice due to their physicochemical properties; they will be efficiently eliminated as such via the faeces. Therefore, systemic exposure will not occur to any significant extent.

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Repeated dose toxicity - Inhalation

Results of inhalation studies clearly show the iron oxide particles to behave as poorly soluble particles. This together with the lack of bioavailability after oral exposure and dermal exposure signifies that no classification for repeated-dose toxicity is necessary.

However repeated high exposures to iron oxide over long periods of time could possibly cause a benign pneumoconiosis known as siderosis. This condition is not thought to cause any impairment of lung morphology, functions or symptoms. Therefore the conditions occurring after the prolonged inhalation high levels of iron or iron compounds as placed on the market do not meet the criteria for classification as dangerous under CLP (Iron Platform Position paper *TWG65 - Siderosis Position Paper100125*).

12. Ecological information

12.1 Toxicity

Iron in massive form and sparingly soluble forms of iron are highly insoluble and non-hazardous. Literary studies have extensively used test solutions with iron concentrations above that of its solubility limit. Due to the physical effects of precipitated material some of these studies are meaningless for the investigation of intrinsic toxicity. Iron ions released to surface waters quickly form insoluble iron hydroxides in mixing zones. These positively charged iron (III) colloids will react with the negatively charged mucus that lines the fish gill. This accumulation of iron on fish gills results in physical effects. In ambient conditions, dissolved natural background concentrations of iron, are generally at equilibrium therefore an addition of iron would lead to the precipitation of iron compounds from solution and are therefore not intrinsically toxic (Jackson, Versfeld & Adams 2010, Peters, Brown & Merrington 2010).

Iron is amongst the most common elements in the earth's crust and can be found in great abundance in both the terrestrial and sediment environment. The relative contributions of anthropogenic iron to the existing natural pools of iron in soils and sediments is therefore not relevant, neither in terms of added amounts, nor in terms of toxicity (Vangheluwe, Vercaigne, Vandenbroele, Heijerick & Shtiza 2010).

Avian toxicity data are used in the assessment of secondary poisoning risks for the aquatic and terrestrial food chains where iron is an essential trace element, well regulated in all living organisms. Differences in iron uptake rates are related to essential needs, varying with the species, size, life stage, seasons etc. Iron homeostatic mechanisms are applicable across species with specific processes being active depending on the species, life stages, etc. The available evidence shows the absence of iron biomagnification across the tropic chain both in the aquatic and terrestrial food chains. The existing information suggests not only that iron does not biomagnify, but rather that it tends to exhibit biodilution. Differences in sensitivity among species are not related to the level in the trophic chain, but to the capability of internal homeostasis and detoxification (Vangheluwe and Nederkassel 2010).

12.2 Persistence and Degradability

Iron ores, agglomerates are highly insoluble, so in general (abiotic) degradation is an irrelevant process for inorganic substances that are assessed on an elemental basis.

12.3 Bioaccumulative potential

Iron is an essential trace element, well regulated in all living organisms. The available evidence shows the absence of iron biomagnification across the trophic chain, both in the aquatic and terrestrial food chains. The existing information suggests not only that iron does not biomagnify, but rather that it tends to exhibit biodilution (Jackson, Versfeld, Adams 2010 & Vangheluwe & Nederkassel 2010).

12.4 Mobility in soil

Iron in massive form and iron oxides are highly insoluble and non-hazardous and therefore demonstrate that the aqueous solubility of iron ores, agglomerates is so low that it does not become bioavailable to ecosystems and will not show mobility in the soil.

12.5 Results of PBT and vPvB assessment

Iron ores, agglomerates are not bio-available, owing to extreme insolubility in water, are not systemically available or bio-accumulative and hence do not fulfil either of the PBT and vPvB criteria for classification.

13. Disposal considerations

Iron ores, agglomerates should always be recycled. If iron ore agglomerates are not fed into a blast furnace or other similar iron / steel making systems they should be recycled back into the process by either the producer or by another company.

14. Transport information

Iron ore agglomerates are not classified as dangerous under CLP or Dangerous Substances Directive for transport so there is no requirement for transport information. All subheadings in this section are not applicable for iron ores, agglomerates.

15. Regulatory information

15.1

Iron ores, agglomerates are not covered by any other local or national legislation in relation to their intrinsic properties, but differences at national level may apply and this should be taken into account. The process of iron ore pellet production including its emissions is covered by the European Commission document "Integrated Pollution Prevention and Control Reference Document on Best Available Techniques for the Iron and Steel Production Draft 2001" (Iron and Steel BREF current standard 2001). This safety data sheet does not cover these types of emission and the BREF document should be used in this case. Occupational exposure limits (OELs) set by each member state and are covered by their own policy and legislation where this exists. There are no Authorisations and Restrictions on use under REACH for the substance iron ores, agglomerates.

15.2

A Chemical Safety Assessment has not been carried out as iron ores, agglomerates do not meet the requirements for being classified as dangerous.

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Other Information 16.

Revision

This safety data sheet has been produced / revised in line with Annex II of the REACH Regulations (2010). Information in this safety data sheet was collected and used where necessary from the work done to produce a REACH Registration dossier and Chemical Safety Report for iron ores, agglomerates. This revision is the current version dated <u>December 2010</u> Previous Versions: Month - year

Abbreviations / Acronyms of significance

ERC1	Manufacture of substances
LD50	Median lethal dose, causing 50% lethality
LC50	Median lethal concentration, causing 50% lethality
PC7	Base metals and alloys
PC19	Intermediate
PROC 2	Use in closed process, no likelihood of exposure - Continuous process but where the design philosophy is not specifically aimed at minimizing emissions. It is not high integrity and occasional expose will arise e.g. through maintenance, sampling and equipment break-ins
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC14	Production of preparations or articles by tabletling, compression, extrusion, pelettisation
PROC22	Potentially closed operations with minerals/metals at elevated temperature - Activities at smelters, furnaces, refineries, coke ovens. Exposure related to dust / furnes to be expected. Emission of direct cooling may be relevant
PROC26	Handling of solid inorganic substances at ambient temperature - Transfer / handling of ores, concentrates, raw metal oxides and scrap; packaging, un-packaging, mixing/blending, weighing of metal powders and other minerals
SU14	Manufacture of basic metals

Risk and Safety Phrases according to (67/548/EEC):

Iron ores, agglomerates are not classified as dangerous and do not have any R and S phrases assigned.

Hazard and Precautionary Statements according to CLP Regulations (EC)1272/2008):

Iron ores, agglomerates are not classified as dangerous and do not have any H and P statements assigned.

ACGIH (2006). Iron oxide. ACGIH. Documentation of the threshold limit values and biological exposure indices Vol:7th Ed (2006). Axelson O, Sjoberg A. (1979). Cancer incidence and exposure to iron oxide dust. J Occup Med 21(6):419-422.

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Bourgkard E, Wild P, Courcot B, Diss M, Ettlinger J, Goutet P, Hemon D, Marquis N, Mur JM, Rigal C, Rohn-Janssens MP, Moulin JJ. (2009). Lung cancer mortality and iron oxide exposure in a French steel-producing factory. Occup Environ Med 66 (3):175-81. DFG (1984). Eisenoxid. Deutsche Forschunsgemeinschaft: toxikologisch-arbeitsmedizinische Begruendung von MAK-Werten.

European Commission document "Integrated Pollution Prevention and Control Reference Document on Best Available Techniques for the Iron and Steel Production Draft April 2010" (Iron and Steel BREF current version 2001)

GESTIS International Limit Values Institut fuer Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA) – website:

http://bgia-online.hvbg.de/LIMITVALUE/WebForm gw.aspx
IARC (1987a). Haematite & iron oxide. IARC Monographs An Updating of IARC Monographs Volumes 1 to 42. Supplement 7 p.216. IARC (1987b). Iron & steel founding. IARC Monographs. An Updating of IARC Monographs Volumes 1 to 42. Supplement 7 p.224. Iron Platform Technical Working Group (2010b). Does the occurrence of siderosis or pulmonary fibrosis after prolonged exposure of workers to iron or iron compounds require these substances to be classified as causing specific target organ toxicity (STOT) under CLP? TWG65 - Siderosis Position Paper100125, Owner company: The Iron Platform.

Jackson K., Versfeld R., Adams W. (Iron Platform). 2010. Position Paper - Predicted No Effect Concentration. Iron Platform, UK. Lawler AB, Mandel JS, Schuman LM, Lubin JH (1985). A retrospective cohort mortality study of iron ore (hematite) miners in Minnesota. J Occup Med 27(7):507-517.

Moulin JJ, Clavel T, Roy D, Dananche B, Marquis N, Fevotte J, Fontana JM. (2000). Risk of lung cancer in workers producing stainless steel and metallic alloys. Int Arch Occup Environ Health 73(3):171-180.

Peters A., Brown B., Merrington G. 2010. Background Paper on Iron in the Aquatic Environment. WCA Environment, UK. Vangheluwe M. & Nederkassel J. van (Arche). 2010. White Paper on waiving for secondary poisoning for Fe and Al compounds – Final report. ARCHE, Belgium.

Vangheluwe M., Vercaigne I., Vandenbroele M., Heijerick D. (ARCHE) & Shtiza A. (ARCADIS). 2010. White Paper on exposure based waiving for iron and aluminium in soil and sediments - Final report. ARCHE, Belgium.

Disclaimer

The information, specifications, procedures, and recommendations herein are presented in good faith and are believed to be accurate and reliable at the date of issue. Where information is taken from supplied items it is the responsibility of the supplier to ensure the accuracy of the data. The Individual authors of this safety sheet are deemed to be appropriately competent. This safety data sheet template was constructed under the requirements of the REACH regulations ((EC) No 1907/2006) using the guidance provided as to the format and information necessary. Occupational exposure limits (OEL) used in this safety data sheet template will be EU OELs and where these limits do not exist appropriate member state OELs will be the reference limit. No liability can be accepted with regard to the handling, processing or use of the product concerned which, in all cases, shall be in accordance with appropriate regulations and or legislation. Company name gives no warranty or representation as to the accuracy of the information or for the guidance being for, or suitable for, a specific purpose. All implied warranties and conditions are excluded, to the maximum extent permitted by law. Use of this document by any third party is at your own risk. Save to the extent that liability cannot be excluded by law, Company name is in no way responsible or liable for any damage or loss whatsoever arising from the use of or reliance on the information and guidance contained in this document.



SAFETY DATA SHEET

Iron Ores, Agglomerates

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 & 453/2010 (CLP)

Version 2

Revision date: 07/11/2012

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Chemical Name

Iron ores, Agglomerates

Trade name

Iron ores, Agglomerates

CAS No.

65996-65-8 265-996-3

EINECS No.

REACH Registration No.

01-2119474XXX-36-0009

Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)

Iron ore pellets are used as a feedstock in blast furnaces and also in other form iron production. Pellet fines or chips are the product of screening pellets prior to shipment and are typically used as feedstock for production of iron sinter. Uses: SU14; PC7, PC19; PROC 2,8b, 14, 22, 26; ERC1 (see Annex 1

for detailed descriptions)

Uses advised against

Those not included in Annex 1

Details of the supplier of the Safety Data Sheet 1.3

Company Identification

VALE S.A.

Av. Dante Micheline, 5500

Ponta de Tubarão Vitória/ES - Brasil CEP. 29090-900

Telephone no

Francisco Macedo: 55-27-3333-6648

Mobile:

55-27-88177659

EU Only Representative

Vale Europe Limited

Acton Refinery Bashley Road London NW10 6SN United Kingdom

Tel

Mike Shepherd 44(0)20 8453 9208

e mail

REACH@vale.com

Emergency telephone number

112 (24/7)

REACH@vale.com

Mike Shepherd 44(0)20 8453 9208

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance Not classified as hazardous

2.2 Other hazards Generation of dust can cause irritation to the respiratory system and mechanical irritation to the eyes. Iron oxide pellets may contain respirable crystalline silica (RCS). Experience along with testing shows that in practice no values of RCS content in iron ore agglomerates are found above 0.1%. Concentrations above 1.0% trigger a STOT RE 2

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classification for the silicosis hazard. Therefore this substance is not classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Composition	%w/w
Di-iron trioxide (Fe ₂ O ₃)	>80.0
Iron (Fe)	60.0-69.0

Substance and impurities are non hazardous

3.2 Mixtures. Not applicable

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Move person into fresh air. If not breathing, give artificial respiration

Skin Contact

The general hygiene measures for chemical products handling are

applicable

Eye Contact

Wash the eye with running water for at least ten minutes. Seek medical

advice if irritation persists.

Ingestion

Never administer anything by mouth to an unconscious person. In case of

ingestion, rinse mouth with water (only if conscious).

4.2 Principal symptoms and effects, both acute and delayed

For eye exposure, soreness and irritation are the main symptoms. For inhalation, coughing is the main symptom. Remove the exposed operator

to an area away from high dust levels.

4.3 Indication of immediate medical attention and special treatment needed

Not applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

None known

5.2 Special hazards arising from the substance or mixture

Non-flammable

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including selfcontained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Contain and collect any spillage of this solid and return to a suitable storage facility. If the solid is dry and dusty wet with

water to prevent wind dispersion and dust explosions.

6.2 Environmental precautions

Keep away from water courses

6.3 Methods and material for containment and cleaning up

Keep in closed containers for disposal. Vacuum or sweep up, transfer to a container, seal ready for disposal. Wet the material with water to limit dust emission or explosion.

6.4 Reference to other sections

Section 8

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Use automated mechanical equipment to handle iron ore agglomerates, so that personal contact is minimized. Collect mechanically and dispose of according to the instructions in Section 13. Avoid dust generation. Use a vacuum to collect material spilled, where feasible. Wear appropriate respirator if exposure to high levels of product is likely.

7.2 Conditions for safe storage, including any incompatibilities

Generally stored in stockpiles in open air. During dry conditions, the iron ores, agglomerates may need to be kept damp through water spraying to minimise dust release through wind scattering. Use of surfactants, wetting agents, etc. are another method of dust suppression. Fixed sided buildings or barriers could also be erected to separate stocks and prevent release of dust. At the blast furnace, covered bunkers are the most effective method of storage.

Storage temperature

Ambient

Storage life

Not applicable

Incompatible materials

Acids, strong oxidizing agents, halogens, phosphorus

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

	Substance						
Country in EU with OEL for the relevant	Iron oxide (Fe ₂ O ₃ & FeO)		Dust inhalable		Dust respirable		
substance	8 hr TWA (mg/m³)	STEL (mg/m³)	8 hr TWA (mg/m³)	STEL (mg/m³)	8 hr TWA (mg/m³)	STEL (mg/m ³)	
Austria	5.0 (resp)	10.0 (resp)	10.0	20.0	5.0	10.0	
Belgium	5.0		10.0		3.0		
Denmark	3.5	7.0	10.0	20.0			
France			10.0		5.0		
Germany (AGS)			10.0	20.0	3.0	6.0	
Germany (DFG)			4.0		1.5		
Hungary	6.0 (resp)		10.0		6.0		
Poland	5.0	10.0			,		
Spain	5.0		10.0		3.0		
Sweden	3.5		10.0		5.0		
United Kingdom	5.0		10.0		4.0		

TWA - Time Weighted Average measured over an 8 hour period

STEL - Short Term Exposure Limit Value - 15 minute duration

Resp - Respirable fraction of dust

AGS - Ausschuss für Gefahrstoffe

DFG- Deutsche Forschungsgemeinschaft

8.1.2 Biological limit values

None assigned.

8.2 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Long term local workers	Not calculated	3 mg/m ³ for the respirable fraction and 10 mg/m ³ for the inhalable fraction.	Not calculated
Long-term systemic general population	Not calculated	3 mg/m ³ for the respirable fraction and 10 mg/m ³ for the inhalable fraction.5 mg/m ³ for the respirable airborne fraction and 5 mg/m ³ for inhalable airborne	Not calculated

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74.76.5		fraction.	
Long-term local general population	Not calculated	1.5 mg/m ³ for the respirable airborne fraction and 5 mg/m ³ for inhalable airborne fraction.	Not calculated
PNECs		Not calculated- substance is not soluble in water	

8.3 Exposure controls

8.3.1 Appropriate engineering controls

Automated systems are recommended to minimise the risk of exposure. For large amounts of built up dust the use of machinery, such as a small mobile mechanical shovel units could be used to collect and transport dust to a skip. The use of water suppression should be considered in conjunction with the use of mechanical methods so as to reduce the risk of dust disturbance.

Personal protection equipment

Eye/face protection

Wear eye protection such as safety glasses / goggles of an approved standard to prevent dust contact with the eyes.



Skin protection (Hand protection/ Other)

For prolonged or repeated contact use protective gloves.



Respiratory protection



Respiratory protection is normally not required. Where protection from nuisance levels of dusts is desired, use Ori-nasal respirators fitted with a P3 filter (EN149: FFP3S). The manufacturer's directions for use must be followed at all times to achieve the correct and proper face fit.

8.3.3 Environmental Exposure Controls

From an environmental perspective, the storage and handling of iron ores, agglomerates can give rise to releases of dust as drift. Airborne dusts may originate from stockpiles and conveyor belts. Dust suppression techniques include the placing of the substance in the direction of the prevailing winds and the use of water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties 9.1

Appearance

Solid

Colour

Odour

None

Melting point at 1013 hPa

>1000 °C

Boiling point

Not applicable

Flash point (°C) Flammability

Not applicable

Explosive limit ranges.

Non flammable Not applicable

Vapour pressure

Not applicable

Relative density g/ml at 20°C

5.0 g/cm³

Solubility (Water) at 25 °C

 $0.05 \mu g/L$

Solubility (Other)

Stable in organic solvents

Partition coefficient (n-

Not applicable

Octanol/water)

Auto ignition temperature

Not applicable

Viscosity

Not applicable

Explosive properties

Non explosive

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Oxidising properties

Not applicable

9.2 Other information

Not known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not highly reactive

10.2 Chemical stability

Iron ores, agglomerates are stable and do not react violently or dangerously

with other substances under normal conditions

10.3 Possibility of hazardous

Not known

reactions

10.4 Conditions to avoid

Not known

10.5 Incompatible materials

Acids, oxygen, strong oxidizing agents, halogens, phosphorus

10.6 Hazardous decomposition

Not known

product(s)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Ingestion Acute LD₅₀

10,000 mg/kg bw

Dermal Acute LD₅₀

Not known

Inhalation Acute LC₅₀

2,100 mg/m³

Skin corrosion/irritation

Not irritating

Eye damage/irritation

Irritation or damage can only occur by mechanical means.

Respiratory or skin sensitisation

Not a sensitiser

Mutagenicity

No evidence of mutagenicity

Carcinogenicity
Reproductive toxicity

No evidence of carcinogenicity
No evidence of reproductive toxicity

STOT- single exposure

Not known

Aspiration hazard

Not known

11.2 Other information

Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not applicable, substance is insoluble

12.2 Persistence and degradability

Inorganic and highly insoluble

12.3 Bioaccumulative potential

Information suggests that iron does not biomagnify, but tends to exhibit

biodilution.

12.4 Mobility in soil

Not mobile

12.5 Results of PBT and vPvB

Not a PBT or vPvB

assessment

12.6 Other adverse effects

Not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Should always be reused or recycled.

13.2 Additional Information

Not known

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

Not classified

Road/Rail (ADR/RID)

Not classified

Class/Packing Group 14.2 IMDG Class Not classified

14.3 ICAO/IATA Class

Not classified

14.4 Transport in bulk according to

Not classified Not classified

Iron Ores, Agglomerates Version 2

Page: 5/7



Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture

15.1.1 EU regulations

Users to follow EU directives and regulations

Authorisations and/or restrictions Not applicable

on use

15.1.2 National regulations

Users to follow national laws and regulations

15.2 **Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out as iron ores,

agglomerates do not meet the requirements for being classified as

dangerous.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Sections 1.3 and 1.4

Legend

LTEL

Long Term Exposure Limit Short Term Exposure Limit

STEL STOT

Specific Target Organ Toxicity

DNEL

Derived No Effect Level

PNEL

Predicted No Effect Concentration

CAS

Chemical Abstracts Service

EINECS

European Inventory of Existing Commercial chemical Substances

References

Regulation (EC) No. 1272/2008 & 453/2010 (CLP)

Directive 67/548/EEC & Directive 1999/45/EC

Chemical Safety Report for Iron Ores, Agglomerates

Risk and Safety phrases

Not classified

Hazard and Precautionary statements

Not classified

Training advice Ensure staff and workers receive adequate training with regular updates in the handling of chemicals

Additional Information: Not known

Disclaimer

The information, specifications, procedures, and recommendations herein are presented in good faith and are believed to be accurate and reliable at the date of issue. Where information is taken from supplied items it is the responsibility of the supplier to ensure the accuracy of the data. The Individual authors of this safety sheet are deemed to be appropriately competent. This safety data sheet template was constructed under the requirements of the REACH regulations ((EC) No 1907/2006) using the guidance provided as to the format and information necessary. Occupational exposure limits (OEL) used in this safety data sheet template will be EU OELs and where these limits do not exist appropriate member state OELs will be the reference limit. No liability can be accepted with regard to the handling, processing or use of the product concerned which, in all cases, shall be in accordance with appropriate regulations and or legislation. Company gives no warranty or representation as to the accuracy of the information or for the guidance being for, or suitable for, a specific purpose. All implied warranties and conditions are excluded, to the maximum extent permitted by law. Use of this document by any third party is at your own risk. Save to the extent that liability cannot be excluded by law, Company is in no way responsible or liable for any damage or loss whatsoever arising from the use of or reliance on the information and guidance contained in this document.



Sector Use (SU)	Preparation Category (PC)	Process category (PROC)	Env Release Categories (ERC)	Operational conditions	Physical form of exposure	Route of exposure
SU14: Manufacture of basic metals	PC7: Base metals and Alloys PC19 - Intermediate	PROC 2 PROC 8b PROC 14 PROC 22 PROC 26	ERC1: Manufacture of substances	Large volume continuous 24 hours / day Temperature: ambient to 1500°C Semi closed system Semi automated operation Transported via conveyor and bunkers	Dust	Human - Inhalation Environment Water (waste stream) Air

Annex 1 Use descriptors

PROC 2 - Use in closed process, no likelihood of exposure

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 14 - Production of preparations or articles by tabletting, compression, extrusion, pelettisation

PROC 22 - Potentially closed operations with minerals/metals at elevated temperature

PROC 26 - Handling of solid inorganic substances at ambient temperature of metal powders and other minerals

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Iron Ore Company of Canada Material Safety Data Sheet

Standard Acid Pellet

Company:

Iron Ore Company of Canada

Address:

P.O. Box 1000

Labrador City, NL

A2V 2L8

Telephone:

(709) 944 8400, ext 8830

Contact:

Terrielynn Foster

Date Revised:

January 31, 2012 Standard Acid Pellet

Product Name: Chemical Name:

Iron oxide (major constituent Fe₂O₃)

Use:

Used as iron bearing burden in iron blast furnace.

U.N. Number:

Not Regulated

Dangerous Goods

This product is classified as part of group C in the code of safe Practice

for Solid Bulk Cargoes (BC Code)

Class & Subsidiary Risk:

Hazchem Code:

Poisons Schedule:

Not Regulated

Not Regulated Not Regulated

Physical Description &

Properties

Appearance

Boiling Point

Grey to red coloured round pellet, between 6.3 mm and 19 mm diameter

3000° (C) for Hematite (Ferric oxide)

Vapour Pressure

N/A

Percent Volatiles

N/A

Specific Gravity

3.96

Flash Point

N/A

Flammability Limits Autoignition Temperature N/A

Other Properties

Insoluble in water; slight weathering may occur

Plazardous Ingredients

Ingredients	Chemical Name	9/0	CAS Number	Exposure limit ACGIH
Total Fe	Fc	93.1	1309-37-1	5 mg/m3
Silica	SiO ₂	4.75	7631-86-9	0.025 mg/m3
Calcium Oxide	CaO	1.00	1305-78-8	2 mg/m3
Magnesium Oxide	MgO	0.35	1309-48-4	10 mg/m3
Aluminum Oxide	Al ₂ O ₃	0.40	1344-28-1	
Manganese	Mn	0.12	7439-96-5	0.2mg/m3
Minor Constituents		<0.60		

Health Effects (Acute):

Ingestion

Quartz is probably not toxic following short-term ingestion. There is no human or animal information available. Ingestion is not a typical route of occupational exposure.

Eye

In general, the dust is not expected to be irritating except as a "foreign object". Some tearing, blinking and mild temporary pain may occur as the solid material is rinsed from the eye by tears.

Skin

In general, quartz dust is not expected to be initiating to the skin

Inhalation

In general, high concentrations of dust may cause coughing and mild, temporary irritation, following a short-term exposure. The ACGIH lists Quartz as a suspected human carcinogen. Quartz can have potentially serious respiratory effects following long-term inhalation (one year or more) or a high one time exposure.

Health Effects (Chronic):

Inhalation

Prolonged or repeated exposure to high levels of fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. The risk of developing and the severity of silicosis depends on the airborne concentration of respirable-size silica dust to which an employee is exposed and the duration of exposure.

Inhalation of quartz has also been associated with a number of other, less well characterized, harmful effects including effects on the kidney, the liver, the spleen and immune system disorders.

Prolonged or repeated inhalation to high levels of inhalable iron ore particles may result in pneumoconiosis (lung disease)

Carcinogenicity

The International Agency for Research on Cancer (IARC) has concluded in Vol. 68, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans and their Supplements: A complete list; 1997, that crystalline silica in the form of quartz or cristobalite from occupational resources should be classified as carcinogenic to humans (Class 1). It has been upgraded from its previous classification as probably carcinogenic to humans (Class 2A). This conclusion was drawn on the basis of a relatively large number of human population studies that together provided sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite. In many (although not all) of these studies, lung cancer risk were elevated and could not be explained by other factors. Recent reviews have tended to conclude that if exposures are controlled to prevent silicosis, they will probably also prevent lung cancer. Ferric oxide isn't classed as a carcinogen.

Teratogenicity & Embryotoxicity

There is no human or animal information available.

Reproductive Toxicity

There is no human or animal information available

Mutagenicity

There is insufficient information available

Toxicologically Synergistic

There is disagreement about whether tobacco smoke increases the severity of the effect of silica dust on respiratory impairment. Simultaneous exposure to known carcinogens can increase the carcinogenicity of crystalline silica. A synergistic effect between smoking and crystalline silica on silicosis or risk of lung cancer is also possible.

First Aid:

Ingestion

Health effects are not expected. If irritation or discomfort occurs, obtain medical advice.

Eye

Flush dust particles from the eye with luke-warm water for 5 minutes or until particle/dust is removed. If irritation persists, seek medical attention.

Skin

Health effects are not expected. If irritation does occur, flush with luke-warm, gently flowing water for 5 minutes or until it is removed.



If high airborne concentrations are present, take the proper precautions to Inhalation

> ensure your own safety before attempting rescue (e.g. wear appropriate personal protective equipment). If symptoms are experienced, remove source

of contamination or have victim move to the fresh air. Obtain medical advice.

Jurisdictions, which have specific regulations for crystalline silica also, require medical surveillance programs. Since they may be some variation in requirements specific information should be sought from the appropriate

government agency in each jurisdiction.

Ventilation Ensure adequate ventilation to keep dust below TLV. This is dependent on

> size of the work area. Local exhaust, mechanical (general), and other controls should be adequate to ensure that the employee exposure to respirable silica

and dust does nor exceed the recommended standards.

Personal Protection: Protective filter masks (NIOSH Approved) should be worn for exposure.

Flammability: N/A

Storage & Transport: No special precautions other than weight and stability considerations.

Spills & Disposal: No special precautions other than possible slip hazard due to spherical shape.

Product should be salvaged for use; clean-up with tractors or shovels as

deemed appropriate.

Fire/Explosion Hazards: None

Advice to Doctors



Iron Ore Company of Canada Material Safety Data Sheet

DIRECT REDUCTION PELLETS (DR)

Company:

Iron Ore Company of Canada

Address:

P.O. Box 1000

Labrador City, NL

A2V 2L8

Telephone:

(709) 944 8400, ext 8830

Contact:

Terrielynn Foster

Date Revised:

January 31, 2012

Product Name:

Direct Reduction Pellets (DR)

Chemical Name:

Iron oxide (major constituent Fe_2O_3)

Use:

Used as feedstock in direct reduction process. Not Regulated

U.N. Number: Dangerous Goods

This product is classified as part of group C in the code of safe Practice

for Solid Bulk Cargoes (BC Code)

Class & Subsidiary Risk:

Not Regulated

Hazchem Code: Poisons Schedule:

Not Regulated Not Regulated

Physical Description &

Properties

Appearance

Grey to red coloured pellet, between 6.3 mm and 19 mm in diameter.

Boiling Point

3000° (C) for Hematite (Ferric oxide)

Vapour Pressure

NA

Percent Volatiles

N/A 3.96

Specific Gravity

61.40

Flash Point

NA

Flammability Limits

N/A

Autoignition Temperature

N/A

Other Properties |

Insoluble in water. Slight weathering may occur.



Hazardous Ingredients

Ingredients	Chemical Name	24,	CAS Number	Exposure limit
Total Fe	Fe	96.8	1309-37-1	5 mg/m3
Silica	SiO ₂	1.20	7631-86-9	0.025 mg/m3
Calcium Oxide	CaO	0.70	1305-78-8	2 mg/m3
Magnesium Oxide	MgO	0.50	1309-48-4	10 mg/m3
Aluminum Oxide	Al_2O_3	0.45	1344-28-1	
Manganese	Mn	0.12	7439-96-5	0.2mg/m3
Minor Constituents	The second secon	< 0.50		

Health Effects (Acute):

Ingestion

Quartz is probably not toxic following short-term ingestion. There is no human or animal information available, Ingestion is not a typical route of occupational exposure.

Eve

In general, the dust is not expected to be irritating except as a "foreign object". Some tearing, blinking and mild temporary pain may occur as the solid material is rinsed from the eye by tears.

Skin

In general, quartz dust is not expected to be irritating to the skin

Inhalation

In general, high concentrations of dust may cause coughing and mild, temporary irritation, following a short-term exposure. The ACGIH lists Quartz as a suspected human carcinogen. Quartz can have potentially serious respiratory effects following long-term inhalation (one year or more) or from a high one time exposure.

Health Effects (Chronic):

Inhalation

Prolonged or repeated exposure to high levels of fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. The risk of developing and the severity of silicosis depends on the airborne concentration of respirable size silica dust to which and employee is exposed and the duration of exposure

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Inhalation of quartz has also been associated with a number of other, less well characterized, harmful effects including effects on the kidney, the liver, the spleen and immune system disorders.

Protonged or repeated inhalation to high levels of inhalable iron ore particles may result in pneumoconiosis (lung disease)

Carcinogenicity

The International Agency for Research on Cancer (IARC) has concluded in Vol. 68, IARC Monographs on the Evaluation of Carcinogenic Risks to thomans and their Supplements: A complete list: 1997, that crystalline silica in the form of quartz or cristobalite from occupational resources should be classified as carcinogenic to humans (Class 1). It has been upgraded from its previous classification as probably carcinogenic to humans (Class 2A). This conclusion was drawn on the basis of a relatively large number of human population studies that together provided sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite. In many (although not all) of these studies, lung cancer risk were elevated and could not be explained by other factors. Recent reviews have tended to conclude that if exposures are controlled to prevent silicosis, they will probably also prevent lung cancer. Ferric oxide isn't classed as a carcinogen.

Teratogenicity & Embryotoxicity

There is no human or animal information available.

Reproductive Toxicity

There is no human or animal information available

Mutagenicity

There is insufficient information available.

Toxicologically Synergistic

There is disagreement about whether tobacco smoke increases the severity of the effect of silica dust on respiratory impairment. Simultaneous exposure to known carcinogens can increase the carcinogenicity of crystalline silica. A synergistic effect between smoking and crystalline silica on silicosis or risk of lung cancer is also possible.

First Aid:

Ingestion

Health effects are not expected. If irritation or discomfort occurs, obtain medical advice.

Eye

Flush dust particles from the eye with luke-warm water for 5 minutes or until particle/dust is removed. If irritation persists, seek medical attention.

Skin

Health effects are not expected. If irritation does occur, flush with luke-warm, gently flowing water for 5 minutes or until it is removed.



Juhalation

If high airborne concentrations are present, take the proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate personal protective equipment). If symptoms are experienced, remove source of contamination or have victim move to the fresh air. Obtain medical advice.

Advice to Doctors

Jurisdictions, which have specific regulations for crystalline silica also, require medical surveillance programs. Since they may be some variation in requirements specific information should be sought from the appropriate government agency in each jurisdiction.

Ventilation

Ensure adequate ventilation to keep dust below TLV. This is dependent on size of the work area. Local exhaust, mechanical (general), and other controls should be adequate to ensure that the employee exposure to respirable silica and dust does not exceed the recommended standards.

Personal Protection:

Protective filter masks (NIOSH Approved) should be worn for exposure.

Flammability:

N/A

Storage & Transport:

No special precautions other than weight and stability considerations.

Spills & Disposal:

No special precautions other than possible slip hazard due to spherical shape. Product should be salvaged for use; clean-up with tractors or shovels as deemed appropriate.

Fire Explosion Hazards:

None -

Safety Data Sheet: SDS

SECTION 1: Identification

Date drawn up:

June 02, 2012

Date of latest revision:

November 22, 2016

Version number:

2.1

1.1. Product identifier

Product Name: HBI

Brand name: **Chemical Name:** HBI – Hot Briquetted Iron¹

Product Use:

Iron and Steel Production

Company: voestalpine Texas LLC

2800 Kay Bailey Hutchison Road Portland, TX 78374, USA Phone: (361) 704 - 9000 Fax: 361 704-9090

Website: voestalpine.com/Texas

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is not classified dangerous in the meaning of the European 67/548EEC Directive and the Regulation (EC) No. 1272/2008. Material Hazardous only in Bulk (MHB) as per IMO IMSBC Code.

2.2. Effects on Human Health:

The principal risk to human health presented by iron dust is directly related to the concentration of dust in the air acting as a nuisance dust. Ex: The higher the concentration of dust the greater the risk of irritation to the respiratory system and mechanical irritation to the eyes.

¹ *Described as Direct Reduced Iron (A) – Briquettes, hot-molded in The International Maritime Solid Bulk Cargoes (IMSBC) Code published by the International Maritime Organization (IMO).

Skin contact: Dust and small pieces of material may cause mechanical irritation and slight

redness

Eye contact: Risk of mechanical irritation to the eyes, redness and pain when dust or small

pieces come in contact with eyes.

Inhalation: Inhalation of the dust may cause irritation to the respiratory tracks. Symptoms

may include coughing, sneezing, soreness of the throat and breathing

difficulties.

Ingestion: If swallowed, dust or small pieces may cause gastrointestinal disturbances. An

overdose of iron may cause irritation to the mouth, oesophagus and stomach

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical Data (Percentages by Weight):

Parameter	Typical concentration	
Total Iron (TFe)	> 89.0 %	
Metallic Iron (MFe):	> 81%	
Carbon (C)	< 3.0 %	
Phosphorus (P)	< 0.06 %	
Sulphur (S)	< 0.02 %	
Gangue	< 6.0 %	

3.2. Ingredients

National Institute of Standards and Concentration Technology Chemical Abstract System

Ingredient	(CAS) Number	(Percentages by Weight)
HBI (Iron Furnace)	65996-67-0	
IRON	7439-89-6	81-88%
IRON (II) OXIDE	1345-25-1	4-8%
IRON (III) OXIDE	1309-37-1	2-8%
METAL OXIDE	Not Available	<4%
CARBON	7440-44-0	0.4-2.0

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact:

Wash immediately with plenty of water for 15 minutes, by maintaining the eyelids open. Seek medical attention of the irritation persists.

Inhalation:

In the event of accident by inhalation, move the victim away from the contaminated area, taking all

ONE STEP AHEAD.

necessary precaution. Seek medical attention in case of breathing difficulties.

Ingestion:

Induce vomiting immediately. Seek medical advice.

Skin contact:

May cause mechanical irritation in contact with the skin, which can result in slight redness.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to other substances stored in close proximity.

Unsuitable extinguishing media:

- DO NOT use CO₂ (as CO may be formed)
- DO NOT use dry chemical.
- DO NOT USE EITHER FRESH WATER OR SEAWATER TO COOL DOWN HOT MATERIAL in enclosed spaces such as a cargo hold on a ship, unless strictly necessary to keep integrity of vessel and under Master's expertise. The material may slowly evolve hydrogen after contact with water and reacts more rapidly with salt water. If water is used use large amount of water to flood the material and provide adequate ventilation to let hydrogen gas generated escape to atmosphere.

5.2 Extinguishing procedures

- Wear fire protective clothing
- Wear self-contained breathing apparatus when entering enclosed spaces with HBI.
- Wear non-sparking footwear.
- Avoid all sources of ignition.
- Remove the hot material from the heap. On a ship, a clamshell bucket may be used.
- Divide hot material into small piles and spread it out to less than 0.5 m deep. The material will quickly cool below the ignition point.
- In the case which it is not practical to spread the material over a wide area such as in a hold of
 a ship, coverage using a non-oxidant material (e.g. sand, and finely crushed slag) could be
 used for smothering the fire and to inhibit the air supply (the decision on whether or not to apply
 this technique would depend on the circumstances of the emergency as the HBI would become
 contaminated).
- In fire situation, evacuate area and contact emergency services

5.3. Advice for fire-fighters

Implement protection measures appropriate to substances stored in close proximity. Wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode and full protective clothing. Do not breathe vapours and move upwind of the cloud of fumes.

SECTION 6: Accidental release measures

Keep unnecessary personal away and use suitable protective equipment. Avoid dispersal of spilled material, runoff and contact with soil, sewers, waterways and drains. Place spilled material in an appropriate container or location for disposal. Recycle when possible

SECTION 7: Handling and storage

Caution: Do not spray water on hot HBI that is steaming (i.e., emitting water vapor). For additional information on transport information and instructions see Section 14.

7.1. Precautions for material handling

HBI is easily handled by all conventional bulk handling equipment typically used in steel mills, and can be handled in a similar manner to scrap such as:

- Front-end loader
- Crane with a magnet or clamshell-type bucket
- Scrap-yard magnets
- Conveyor belts

7.2. Conditions for safe storage, including any incompatibilities

The storage area should be as close as possible to the point of use. This will avoid double handling and avoid fines generation.

HBI can be stored in the following areas or containers:

- Yards (covered or uncovered)
- Silos or bins with adequate ventilation

Proper surface ventilation shall be provided for material in enclosed spaces. Temporary small increase in temperature may be expected after material handling in bulk. Maximum allowed ship loading temperature 65 C. if temperature exceeds 65 C, provide adequate surface ventilation to remove any hydrogen gas generation. Do not allow any hot work/spark generation on deck or surroundings.

Non-flammable when correctly piled. May self-heat if piled incorrectly. In fire situation, evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard.

The general guidelines for all forms of storage are:

- Clean and dry.
- Free of combustible materials: coal, wood, coke, etc.
- Free of chlorides or past cargoes: avoid cement, lye, borax.
- Care with adjacent cargoes: do not store near coal or other flammable material.

SECTION 8: Exposure controls/personal protection

Respiratory Protection:

When dust is generated, provide adequate general ventilation to ensure that the Occupational Exposure Limits are not exceeded. If necessary provide local fume extraction, with the correct capture hood and capture velocity to match the conditions.

As the last resort, suitable respiratory protective equipment should be provided for use by those at risk from inhalation of fumes. During handling dust may be generated and if ventilation is inadequate, the use of an FFP2 (EN 149:2001) type respirator is

advisable.

Hand Protection:

Use of canvas gloves is advisable.

Eye Protection:

During handling (e.g. loading, unloading, cutting, etc.), dust may be generated, and the use of safety

goggles is therefore advisable.

Skin/body Protection:

Personal protective equipment should be selected based on the task being performed and the risk

involved.

Emergency facilities:

Safety showers; Eye wash station.

Other information:

Wear safety shoes.

During handling, material can spill and use of helmet is

advisable.

Exposure Limit:

ACGIH TLV (United States):

TWA 10 mg/m3 8 hours(s). Form: Inhalable particle Consult local authorities for acceptable exposure limits

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

From light gray to black.

Odour:

Odourless.

:Hq

Not relevant.

Melting point:

1150 to 1540 °C dependent upon the carbon content

Boiling point/boiling range:

2860 °C

Flash point:

Not relevant.

Evaporation Rate:

Not relevant.

Flammability LEL:

Not relevant

Flammability UEL:

Not relevant

Vapour pressure:

Not relevant.

Vapour density

Not relevant.

Apparent density:

approx. 5.0 g/cm3

ONE STEP AHEAD.

Bulk density:

2500 - 3300 kg/m³

Water solubility:

Iron powder is insoluble at 22°C.

Partition Coefficient n-octanol/water:

Not relevant.

Self-ignition temperature

Not auto flammable. However, HBI piles can reach the ignition point under certain conditions:

Sustained re-oxidation

Excessive fines content in the pile Briquetting density below 5.0 gm/cm³

Accumulated hot product Presence of excess water

Under such conditions, the pile will ignite locally if the temperature of the pile exceeds 200° C (ignition

temperature).

Decomposition Temperature:

Not relevant

SECTION 10: Stability and reactivity

Reactivity:

Reacts with oxidizing agents and acids. Outer layer may react in air to

form a coating of iron oxide. Can react under certain conditions with

water to form iron oxide and some hydrogen.

Chemical Stability:

Stable in dry air and under normal conditions

Incompatible Materials:

Incompatible with oxidizing agents and acids.

SECTION 11: Toxicological information

No toxicity data is available for this material.

Skin contact: Dust and small pieces of material may cause mechanical irritation and slight redness

Eye contact: Risk of mechanical irritation to the eyes, redness and pain when dust or small

pieces come in contact with eyes.

Inhalation:

Inhalation of the dust may cause irritation to the respiratory tracks. Symptoms

may include coughing, sneezing, soreness of the throat and breathing

difficulties.

Ingestion:

If swallowed, dust or small pieces may cause gastrointestinal disturbances. An

overdose of iron may cause irritation to the mouth, esophagus and stomach



SECTION 12: Ecological information

This material is not considered a contaminant to the environment. In the long term, it is stabilized in the form of oxides. Iron and its compounds are essential substances. Iron is an essential trace element, well-regulated in all living organisms. The available evidence shows the absence of iron biomagnification across the trophic chain both in the aquatic and terrestrial food chains

As iron is not bio-available, owing to its extreme insolubility in water, it is not systemically available or bio-accumulative and hence it does not fulfil either of the PBT and vPvB criteria for classification.

Avoid spillage in land or water. Local environmental regulations should be followed.

SECTION 13: Disposal considerations

When possible, the material should be recycled for further use. In the event that recycling is not possible, material should be disposed of in an appropriately permitted landfill site or by other means, always in compliance with applicable regulations. Material should not be disposed of in sewers or waterways.

SECTION 14: Transport information

14.1. UN number

Not applicable.

14.2. UN Proper shipping name

Chemical name: Hot Briquetted Iron

14.3. Transport hazard class (es)

According to UN recommendations, it is not classified as Dangerous Goods.

Classified as MHB, Briquettes Hot Molded under the regulations for ocean transport contained in the International Maritime Organization publication "International Maritime Solid Bulk Cargoes Code (IMSBC Code)

DRI Hazardous only in Bulk (MHB), group

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Transport in bulk according to Annex II of the MARPOL73/78 convention and the IBC Code Not applicable.

14.7. Special precautions for user

Truck and Rail Road Transportation:

Material should be transported in the same way as with other bulk materials. Local transportation regulations should also be followed.

Maritime Transport:

ONE STEP AHEAD.

The schedule for HBI or DRI (A) in the IMO IMSBC Code lists the following under the heading "Hazards":

- Temporary self-heating of about 30° Celsius may be expected after material is handled in bulk
- Material may slowly evolve hydrogen after contact with water. Hydrogen is a flammable gas that can cause explosions when mixed with air in concentrations above 4 percent.
- Liable to cause oxygen depletion in cargo spaces.
- This cargo is non-combustible or has a low fire risk.

Additional information may also be found in the "Hot Briquetting Iron (HBI) Guide for handling, Maritime Carriage, and Storage" published by the Hot Briquetting Iron (HBIA) association.

SECTION 15: Regulatory information

OSHA/EPA: Not provided. Consult local regulations.

SECTION 16: Other information

Sources:

Iron Reach dossier³

International Maritime Solid Bulk Cargoes Code
Hot Briquetted Iron Guide for Transporting and
Handling at Terminals – Best Available Practice –
2010

Index of Revision(s):

00 Joey Vasquez, Texas LLC Victor Romo, Texas LLC Suriel Ga	and Other Terres IIIO First Edition 0.4
	arcia Sibaja, Texas LLC First Edition 0.1
01 Joey Vasquez, Texas LLC Chris Harris, Texas LLC Suriel Ga	arcia Sibaja, Texas LLC Second Edition 2.0

Comments to Users:

This sheet supplements but does not replace instruction manuals. The information contained herein is given to the best of our knowledge concerning the substance indicated on the date on which it was updated. Information is provided in good faith.

Attention of users is also drawn to possible risks which may arise if the substance is applied for purposes other than those for which it has been designed.

This safety data sheet does not in any way exempt the user from knowing and complying with all regulatory texts applying to his or her activity. The user takes full responsibility for knowing and taking the precautions related to the use of the substance. References to regulatory provisions are given to assist the user in fulfilling the obligations incumbent on persons using a substance or a dangerous mixture.

All local and international measures and provisions which could apply should be referred to.

Attention of users is drawn to the possible existence of other provisions supplementing these rules.

This list is not to be taken as comprehensive. It does not exempt the user from ensuring that obligations under texts other than those to which reference is made do not apply to the detention and use of the substance, for which the user alone is responsible.

³ This link may be changed by ECHA in the future



ATTACHMENT 6 Voestalpine Texas Site Dust Health Risk Analysis

Total Pages: 31

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Refer to the CONFIDENTIAL FILE

for the Voestalpine Texas Site Dust Health Risk Analysis.

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ATTACHMENT 7 Laboratory Analysis Request No. 1705012

Total Pages: 8

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705012

Request Lead:Frank Martinez

Region: T14

Date Received: 5/19/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpine	Portland	San Patricio	Manufacturing
Sample(s) Received			
Field ID Number: I Sampling Site: Complainant's Property Comments: Tape lift from the back door (comments)		ampled: 05/17/17	15:00:00 Valid Sample: Yes
Field ID Number: J Sampling Site: Complainant's Property Comments: Tape lift from a glass table on		ampled: 05/17/17	15:05:00 Valid Sample: Yes
Field ID Number: K Sampling Site: Complainant's Property Comments: Tape lift from a glass table on		ampled: 05/17/17	15:33:00 Valid Sample: Yes
Field ID Number: L Sampling Site: Complainant's Property Comments: Tape lift from the front window		ampled: 05/17/17	15:41:00 Valid Sample: Yes
Field ID Number: M Sampling Site: Complainant's Property Comments: Tape lift from the pool ladder (ampled: 05/17/17	15:58:00 Valid Sample: Yes
Field ID Number: N Sampling Site: Complainant's Property Comments: Tape lift from the front windov		ampled: 05/17/17	16:07:00 Valid Sample: Yes
Requested Laboratory Procedure(s):			

AP007MIC Analysis:

Environmental Sample Characterization using Polarized Light Microscopy

Analysis: AP008MIC

Sample Characterization using Scanning Electron Microscope with an Energy Dispersive X-Ray Microanalysis Spectrometer

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705012

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Analyst:

Amy Harvey

Laboratory Manager:

Frank Martinez

Date: 6/6/17

Date: 6/6/17

Laboratory Analysis Results Request Number: 1705012

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705012-001

Analysis began: 5/24/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 5/31/2017

Sample I was lightly loaded. The sample contained between 5 and 20% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 20 - 120 µm. Metal particles were consistent in appearance with all other field samples in this request (1705012) and with reference samples 1705011-010RS, -011RS, and -012RS. The sample also contained between 61 and 70% common clays and minerals, between 5 and 20% fungal spores, and between 5 and 20% pollen.

Sample Number: 1705012-001

Analysis began: 5/25/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 5/31/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz, feldspar, and limestone.

Sample Number: 1705012-002

Analysis began: 5/24/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 5/31/2017

Sample J was lightly loaded. Metal particles accounted for less than 5% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 5 - 40 μm. The sample contained between 71 and 80% common clays and minerals, between 5 and 20% pollen, and between 5 and 20% plant material. Other particles present in quantities less than 5% included fungal spores, plant trichomes, and starch grains.

Sample Number: 1705012-002

Analysis began: 5/25/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 5/31/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of a several particles confirmed the presence of common clays and minerals such as limestone and quartz.

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> Attachment 7 Inv. No. 1415945 Page 5 of 6

Laboratory Analysis Results Request Number: 1705012

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705012-003

Analysis began: 5/24/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 5/31/2017

Sample K was heavily loaded. The sample contained between 41 and 50% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 120 μm. The sample also contained between 41 and 50% common clays and minerals. Other particles present in quantities less than 5% included fungal material, plant trichomes, and pollen.

Sample Number: 1705012-003

Analysis began: 5/25/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 5/31/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a third metal particle showed elements carbon, oxygen, silicon, phosphorus, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspar, quartz, and limestone.

Sample Number: 1705012-004

Analysis began: 5/24/2017

SOP: AP007MIC Analysis completed: 5/31/2017 Analyst: Amy Harvey

Sample L was moderately loaded. The sample contained between 21 and 30% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 90 μm. The sample also contained between 51 and 60% fungal material and between 21 and 30% common clays and minerals.

Other particles present in quantities less than 5% included fungal spores and pollen.

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> Attachment 7 Inv. No, 1415945 Page 4 of 8

Request Number: 1705012

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705012-004

Analysis began: 5/25/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 5/31/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, silicon, sulfur, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen

EDS analysis of a third metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as limestone, feldspar, and quartz.

Sample Number: 1705012-005

Analysis began: 5/24/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 5/31/2017

Sample M was heavily loaded. The sample contained between 71 and 80% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 130 μm. The sample also contained between 5 and 20% common clays and minerals and between 5 and 20% fungal material. Other particles present in quantities less than 5% included burned vegetation, plant trichomes, pollen, and starch grains.

Sample Number: 1705012-005

Analysis began: 5/26/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 5/31/2017

EDS analysis of a metal particle showed elements carbon, oxygen, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, aluminum, silicon, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a third metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspar and quartz.

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Laboratory Analysis Results Request Number: 1705012

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705012-006

Analysis began: 5/24/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 5/31/2017

Sample N was lightly loaded. The sample contained between 31 and 40% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 100 µm. The sample also contained between 41 and 50% fungal material and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included pollen and plant material.

Sample Number: 1705012-006

Analysis began: 5/26/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 5/31/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen, chlorine, and iron. EDS analysis of a third metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and mineral such as quartz and feldspar.

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Request Number: 1705012

Analysis Code: AP008MIC

Qualifier Notes:

- ND not detected
- NQ concentration can not be quantified due to possible interferences or coelutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
- SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
- INV Invalid.
- J Reported concentration is below SDL.
- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.
- E Reported concentration exceeds the upper limit of instrument calibration.
- M Result modified from previous result.
- T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control.
- H Not all associated hold time specifications were met. Data may be biased.
- C Sample received with a missing or broken custody seal.
- R Sample received with a missing or incomplete chain of custody.
- I Sample received without a legible unique identifier.
- G Sample received in an improper container.
- U Sample received with insufficient sample volume.
- W Sample recevied with insufficient preservation.

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Susan Hoelscher

From:

Hattie Waites

Sent:

Tuesday, June 06, 2017 10:22 AM

To:

Ashley Scott

Cc: Subject: Frank Martinez Request Report 1705012

Attachments:

1705012.pdf

Attached is your PDF file for Request Report 1705012.

You will not receive a hard copy.



ATTACHMENT 8 Laboratory Analysis Request No. 1705014

Total Pages: 8

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705014

Request Lead:Frank Martinez

Region: T14

Date Received: 5/22/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpine	Portland	San Patricio	Manufacturing
Sample(s) Received	, 8, 7, 6		
Field ID Number: P L Sampling Site: Complainant's Property Comments: Tape lift from the wood siding of 9)	aboratory Sample Number: 1705 Date & Time S the garage door (painted tan) loc	Sampled: 05/18/17 ated on the north (fr	upled by: Ashley Scott 14:52:00 Valid Sample: Yes ont) side of the residence. (C
Field ID Number: Q L Sampling Site: Complainant's Property Comments: Tape lift from the window glass lo	aboratory Sample Number: 1705	014-002 Sam	pled by: Ashley Scott 15:12:00 Valid Sample: Yes 10)
Field ID Number: R Sampling Site: Complainant's Property Comments: Tape lift from the front door (pain		Sampled: 05/18/17	pled by: Ashley Scott 15:15:00 Valid Sample: Yes nce. (CMP 10)
ield ID Number: S Lampling Site: Complainant's Property Comments: Tape lift from the front door wind		Sampled: 05/18/17	pled by: Ashley Scott 15:35:00 Valid Sample: Yes sidence. (CMP 11)
ield ID Number: T ampling Site: Complainant's Property comments: Tape lift from the ledge of the scre (CMP 11)		Sampled: 05/18/17	pled by: Ashley Scott 15:40:00 Valid Sample: Yes ont) side of the residence.
ield ID Number: U ampling Site: Complainant's Property comments: Tape lift from the window glass lo		ampled: 05/18/17	16:04:00 Valid Sample: Yes
ield ID Number: V ampling Site: Complainant's Property omments: Tape lift from the ledge of an abov		ampled: 05/18/17	pled by: Ashley Scott 16:10:00 Valid Sample: Yes residence. (CMP 8)
equested Laboratory Procedure(s):			
nalysis: AP007MIC	olarized Light Microscopy		
nalysis: AP008MIC ample Characterization using Scanning Electro	n Microscope with an Energy D	ispersive X-Ray Mic	eroanalysis Spectrometer

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705014

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Date: 6/9/17
Date: 6/9/17

Laboratory Manager:

Request Number: 1705014

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705014-001

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample P was lightly loaded. The sample contained less than 5% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 100 μm. The Fungal spores accounted for over 80% of the particle coverage. The sample contained between 5 and 20% paper fibers. Other particles present in quantities less than 5% included common clays and minerals, and rubber dust.

Sample Number: 1705014-001

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen, and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with

request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as

Sample Number: 1705014-002

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample Q was moderately loaded. The sample contained between 5 and 20% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 300 μm. The sample also contained between 21 and 30% common clays and minerals, between 21 and 30% fungal spores, and between 21 and 30% plant fibers. Other particles present in quantities less than 5% included plant stellate hairs, plant trichomes, pollen, starch grains, and rubber dust.

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Request Number: 1705014

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705014-002

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and feldspar.

Sample Number: 1705014-003

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample R was lightly loaded. The sample contained less than 5% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 100 µm. The sample contained between 31 and 40% plant material, between 21 and 30% common clays and minerals, between 5 and 20% fungal spores, and between 5 and 20% plant stellate hairs. Other particles present in quantities less than 5% included animal hair, plant trichomes, pollen, and rubber dust.

Sample Number: 1705014-003

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen,

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and limestone.

Sample Number: 1705014-004

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample S was lightly loaded. The sample contained less than 5% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 40 µm. The sample contained between 41 and 50% common clays and minerals, between 41 and 50% fungal spores, and between 5 and 20% paper fibers.

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> Attachment 8 Page 4_ of 5

Request Number: 1705014

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705014-006

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, chlorine, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and feldspar.

Sample Number: 1705014-007

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample V was heavily loaded. The sample contained less than 5% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 300 μm. Common clays and minerals accounted for over 80% of the particle coverage. The sample contained between 5 and 20% weathered paint. Other particles present in quantities less than 5% included paper fibers and plant Analysis began: 6/5/2017

Sample Number: 1705014-007

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz.

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Laboratory Analysis Results Request Number: 1705014

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705014-004

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz.

Sample Number: 1705014-005

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample T was lightly loaded. The sample contained between 5 and 20% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 120 μm. The sample also contained between 41 and 50% common clays and minerals, and between 21 and 30% plant material.

Other particles present in quantities less than 5% included plant fibers, plant stellate hairs, plant

trichomes, and pollen.

Sample Number: 1705014-005

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/5/2017

EDS analysis of a metal particle showed elements carbon, oxygen, silicon, chlorine, calcium, and

iron. The primary peaks in the x-ray spectrum were oxygen and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with

request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and limestone.

Sample Number: 1705014-006

Analysis began: 6/2/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/5/2017

Sample U was heavily loaded. The sample contained between 5 and 20% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1 - 100 μm . The sample also contained between 31 and 40% fungal spores, between 21 and 30% common clays and minerals, and between 21 and 30% plant material. Other particles present in quantities less than 5% included plant fibers, plant stellate hairs, plant trichomes, and pollen.

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Request Number: 1705014 Analysis Code: AP008MIC

4. 44 12 1

Qualifier Notes:

- ND not detected
- NQ concentration can not be quantified due to possible interferences or coelutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
- SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
- INV Invalid.
- J Reported concentration is below SDL.
- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.
- E Reported concentration exceeds the upper limit of instrument calibration.
- M Result modified from previous result.
- T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentalively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control.
- H Not all associated hold time specifications were met. Data may be biased.
- C Sample received with a missing or broken custody seal.
- R Sample received with a missing or incomplete chain of custody.
- I Sample received without a legible unique identifier.
- G Sample received in an improper container.
- U Sample received with insufficient sample volume.
- W Sample recevied with insufficient preservation.

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Susan Hoelscher

From:

Ashley Scott

Sent:

Friday, June 09, 2017 2:37 PM

To:

Susan Hoelscher

Cc:

Kelly Ruble; Sonny Lopez

Subject:

FW: Request Report 1705014

Attachments:

1705014.pdf

From: Hattie Waites

Sent: Friday, June 09, 2017 2:35 PM

To: Ashley Scott <Ashley.Scott@Tceq.Texas.Gov>
Cc: Frank Martinez <Frank.Martinez@Tceq.Texas.Gov>

Subject: Request Report 1705014

Attached is your PDF file for Request Report 1705014.

You will not receive a hard copy.



ATTACHMENT 9 Laboratory Analysis Request No. 1705013

Total Pages: 8

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705013

Request Lead:Frank Martinez

Region: T14

Date Received: 5/22/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpinc	Portland	San Patricio	Manufacturing
Sample(s) Received			
Field ID Number: 1 L Sampling Site: Complainant's Property Comments: Tape lift from an outside metal wi	aboratory Sample Number: 17050 Date & Time Sa ndow sill located on the east (fron	impled: 05/18/17	pled by: Susan Hoelscher 14:35:00 Valid Sample: Ye I. (CMP13)
Field ID Number: 2 La Sampling Site: Complainant's Property Comments: Tape lift from an outdoor light gla		impled: 05/18/17	pled by: Susan Hoelscher 14:50:00 Valid Sample: Ye esidence. (CMP 14)
Field ID Number: 3 La Sampling Site: Complainant's Property Comments: Tape lift from an outside window		mpled: 05/18/17	14:52:00 Valid Sample: Ye
Field ID Number: 4 La Sampling Site: Complainant's Property Comments: Tape lift from the trunk of a care (mpled: 05/18/17	pled by: Susan Hoelscher 14:55:00 Valid Sample: Ye residence. (CMP 14)
Field ID Number: 5 La Sampling Site: Complainant's Property Comments: Sample taken from an outside wind		mpled: 05/18/17	pled by: Susan Hoelscher 15:23:00 Valid Sample: Ye sidence. (CMP 16)
Field ID Number: 6 La Sampling Site: Complainant's Property Comments: Sample taken from the front door (mpled: 05/18/17	15:27:00 Valid Sample: Yes
Field ID Number: O La Sampling Site: Complainant's Property Comments: Sample taken from an outside wind		mpled: 05/18/17	14:47:00 Valid Sample: Yes
Requested Laboratory Procedure(s):			
Analysis: AP007MIC	3		

Analysis: AP008MIC

Environmental Sample Characterization using Polarized Light Microscopy

Sample Characterization using Scanning Electron Microscope with an Energy Dispersive X-Ray Microanalysis Spectrometer

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705013

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Laboratory Manager:

Date: 6/1/17

Date: 6/1/17

Laboratory Analysis Results Request Number: 1705013

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705013-001

Analysis began: 5/30/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/1/2017

Sample one was lightly loaded. Metal particles accounted for over 80% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 - 200 μm. The sample contained between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, plant stellate hairs, pollen, and rubber dust.

Sample Number: 1705013-001

Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/1/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and limestone.

Sample Number: 1705013-002

Analysis began: 5/30/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/1/2017

Sample two was heavily loaded. Metal particles accounted for less than 5% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 - 120 μm. White weathered paint accounted for over 80% of the particle coverage. Other particles present in quantities less than 5% included common clays and minerals.

Sample Number: 1705013-002

Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/1/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of a weathered paint particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, and titanium. The primary peaks in the x-ray spectrum were carbon and silicon. EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and feldspar.

TCEQ laboratory customer support may be reached at Frank. Martinez@tceq.texas.gov

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Laboratory Analysis Results Request Number: 1705013

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705013-003

Analysis began: 5/30/2017

SOP: AP007MIC Analysis completed: 6/1/2017

Analyst: Jeffrey Ketteman

Sample three was heavily loaded. Metal particles accounted for between 61 and 70% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 - 100 µm. The sample contained between 21 and 30% common clays and minerals and between 5 and 20% weathered paint. Other particles present in quantities less than 5% included burned vegetation, fungal spores, plant stellate hairs, and pollen.

Sample Number: 1705013-003

Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/1/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a second metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz.

Sample Number: 1705013-004

Analysis began: 5/30/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/1/2017

Sample four was lightly loaded. Metal particles accounted for between 61 and 70% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 - 200 μm. The sample contained between 21 and 30% common clays and minerals. Other particles present in quantities less than 5% included paper fibers, plant trichomes, pollen, and rubber dust.

Sample Number: 1705013-004

Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/1/2017

EDS analysis of a metal particle showed elements carbon, oxygen, silicon, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and feldspar.

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Request Number: 1705013

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705013-005 Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman SOP: AP007MIC Analysis completed: 6/1/2017

Sample five was moderately loaded. Metal particles accounted for between 41 and 50% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1-200 μ m. The sample contained between 31 and 40% weathered paint and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included paint overspray, plant stellate hairs, and pollen.

Sample Number: 1705013-005 Analysis began: 5/31/2017
Analyst: Jeffrey Ketteman SOP: AP008MIC Analysis completed: 6/1/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. EDS analysis of a second metal particle showed elements carbon, oxygen, sodium, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen, and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspars.

Sample Number: 1705013-006 Analysis began: 5/31/2017
Analyst: Jeffrey Ketteman SOP: AP007MIC Analysis completed: 6/1/2017

Sample six was lightly loaded. Metal particles accounted for between 41 and 50% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 - 120 μ m. The sample contained between 51 and 60% common clays and minerals. Other particles present in quantities less than 5% included carbonaceous material, fungal spores, and paper fibers.

Sample Number: 1705013-006 Analysis began: 5/31/2017
Analysi: Jeffrey Ketteman SOP: AP008MIC Analysis completed: 6/1/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second iron particle showed elements carbon, oxygen, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and limestone.

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Request Number: 1705013

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705013-007

Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/1/2017

Sample O was lightly loaded. Metal particles accounted for less than 5% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 - 40 μm. The sample contained between 61 and 70% fungal spores and between 21 and 30% paper fibers. Other particles present in quantities less than 5% included plant stellate hairs and plant material.

Sample Number: 1705013-007

Analysis began: 5/31/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/1/2017

EDS analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as feldspar and limestone.

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> Attachment 9 Inv. No., 1415945 Page \mathcal{Q} of \mathcal{B}

Request Number: 1705013

Analysis Code: AP008MIC

Qualifier Notes:

ND - not detected

NQ - concentration can not be quantified due to possible interferences or coelutions.

SDL - Sample Detection Limit (Limit of Detection adjusted for dilutions).

SQL - Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).

J - Reported concentration is below SDL.

L - Reported concentration is at or above the SDL and is below the lower limit of quantitation.

E - Reported concentration exceeds the upper limit of instrument calibration.

M - Result modified from previous result.

T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.

F - Established acceptance criteria was not met due to factors outside the laboratory's control.

H - Not all associated hold time specifications were met. Data may be biased.

C - Sample received with a missing or broken custody seal.

R - Sample received with a missing or incomplete chain of custody.

I - Sample received without a legible unique identifier.

G - Sample received in an improper container.

U - Sample received with insufficient sample volume.

W - Sample recevied with insufficient preservation.

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Susan Hoelscher

From:

Hattie Waites

Sent:

Friday, June 02, 2017 3:37 PM

To:

Susan Hoelscher

Cc: Subject: Frank Martinez

Request Report 1705013

Attachments:

1705013.pdf

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ATTACHMENT 10 Laboratory Analysis Request No. 1705016

Total Pages: 7

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705016

Request Lead:Frank Martinez

Region: T14

Date Received: 5/24/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpine	Portland	San Patricio	Manufacturing
Sample(s) Received	Arman and a second		
Field ID Number: 7	Laboratory Sample Number: 17		pled by: Susan Hoelscher
Sampling Site: Complainant's Property	Date & Time	e Sampled: 05/19/17	13:33:00 Valid Sample: Ye
Comments: Tape lift from an outside wind	low glass located on the south (fro	nt) side of the residenc	e. (CMP 29)

Field ID Number: 8 Laboratory Sample Number: 1705016-002 Sampled by: Susan Hoelscher Sampling Site: Complainant's Property Date & Time Sampled: 05/19/17 13:35:00 Valid Sample: Yes Comments: Tape lift from an outdoor light plastic cover located on the south/southwest (front) side of the residence. (CMP 29)

Field ID Number: 9 Laboratory Sample Number: 1705016-003 Sampled by: Susan Hoelscher Sampling Site: Complainant's Property Date & Time Sampled: 05/19/17 14:25:00 Valid Sample: Yes

Comments: Tape lift from an outside window glass located on the east (front) side of the residence. (CMP 28)

Field ID Number: 10 Laboratory Sample Number: 1705016-004 Sampled by: Susan Hoelscher Sampling Site: Complainant's Property Date & Time Sampled: 05/19/17 14:26:00 Valid Sample: Yes

Comments: Tape lift from an outdoor light glass cover located on the east (front) side of the residence. (CMP 28)

Field ID Number: W Laboratory Sample Number: 1705016-005 Sampled by: Susan Hoelscher Sampling Site: Complainant's Property Date & Time Sampled: 05/19/17 14:48:00 Valid Sample: Yes Comments: Tape lift from an outside window glass located on the south (front) side of the residence. (CMP 54)

Comments. Tape interioring an outside window glass rocated on the south (none) side of the residence. (Civil 34)

Field ID Number: X

Laboratory Sample Number: 1705016-006

Sampled by: Susan Hoelscher
Sampling Site: Complainant's Property

Date & Time Sampled: 05/19/17 14:54:00 Valid Sample: Yes
Comments: Tape lift from the garage door (painted tan) located on the north (back) side of the residence. (CMP 54)

Requested Laboratory Procedure(s):

Analysis: AP007MIC

Environmental Sample Characterization using Polarized Light Microscopy

Analysis: AP008MIC

Sample Characterization using Scanning Electron Microscope with an Energy Dispersive X-Ray Microanalysis Spectrometer

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1705016

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Analyst:

Amy Harvey

Laboratory Manager:

Frank Martinez

Date: 6/9/17

Date: 6/12/17

Request Number: 1705016

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705016-001

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 6/8/2017

Sample 7 was lightly loaded. The sample contained between 5 and 20% metal particles. Only three metal particles were found on the subsample. Metal particles ranged in color from black to reddish and ranged in size from 5 - 150 µm. Metal particles were consistent in appearance with metal particles identified in other field samples in this request (1705016) and with reference samples 1705011-010RS, -011RS, and -012RS. The sample also contained between 31 and 40% common clays and minerals, between 31 and 40% fungal spores, and between 5 and 20% plant stellate hairs. Other particles present in quantities less than 5% included plant fibers, pollen, and rubber dust.

Sample Number: 1705016-001

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 6/8/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, aluminum, silicon, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz, feldspar, and salt (sodium chloride).

Sample Number: 1705016-002

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 6/8/2017

Sample 8 was heavily loaded. The sample contained less than 5% metal particles. Only one metal particle was found on the subsample. This metal particle was colored black with a reddish edge and was 60 μm. Fungal spores accounted for over 80% of the particle coverage. Other particles present in quantities less than 5% included common clays and minerals, white paint overspray, plant fibers, and plant stellate hairs.

Sample Number: 1705016-002

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 6/8/2017

No metal particles were found on SEM subsample.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz, gypsum, and salt (sodium chloride).

Sample Number: 1705016-003

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 6/8/2017

Sample 9 was lightly loaded. The sample contained between 31 and 40% common clays and minerals, between 31 and 40% fungal material, between 5 and 20% plant fibers, and between 5 and 20% plant material. Other particles present in quantities less than 5% included pollen.

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Laboratory Analysis Results Request Number: 1705016

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705016-003

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 6/8/2017

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz, feldspar, gypsum, and salt (sodium chloride).

Sample Number: 1705016-004

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 6/8/2017

Sample 10 was moderately loaded. The sample contained less than 5% metal particles. Only two metal particles were found on the subsample. The metal particles ranged in color from reddish to black and ranged in size from 2 - 40 μm . The sample also contained between 61 and 70% fungal spores, between 21 and 30% common clays and minerals, and between 5 and 20% plant fibers. Other particles present in quantities less than 5% included spider web.

Sample Number: 1705016-004

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 6/8/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen, and iron. This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as limestone, feldspar, and gypsum.

Sample Number: 1705016-005

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 6/8/2017

Sample W was moderately loaded. The sample contained less than 5% metal particles. Only two metal particles were found on subsample. Metal particles ranged in color from reddish to black and ranged in size from 10 - 45 μm. The sample contained between 71 and 80% common clays and minerals and between 21 and 30% fungal spores. Other particles present in quantities less than 5% included plant fibers, plant stellate hairs, pollen, and rubber dust.

Sample Number: 1705016-005

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 6/8/2017

No metal particles were found on SEM subsample.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz, limestone, feldspar, and salt (sodium chloride).

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> Attachment 10 Inv. No. 1415945 Page 4 of 1

Laboratory Analysis Results

Request Number: 1705016

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1705016-006

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP007MIC Analysis completed: 6/8/2017

Sample X was heavily loaded. The sample contained less than 5% metal particles. Metal particles ranged in color from reddish to black and ranged in size from 40 - 80 µm. The sample contained between 51 and 60% plant/wood fibers and between 31 and 40% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, animal hair, white paint chips, white paint overspray, plant stellate hairs, pollen, and rubber dust.

Sample Number: 1705016-006

Analysis began: 6/6/2017

Analyst: Amy Harvey

SOP: AP008MIC Analysis completed: 6/8/2017

EDS analysis of a metal particle showed elements carbon, oxygen, calcium, and iron. The primary peak in the x-ray spectrum was iron.

EDS analysis of a second metal particle showed elements carbon, oxygen, silicon, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

These x-ray spectra of metal particles are consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and limestone.

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Laboratory Analysis Results Request Number: 1705016

Analysis Code: AP008MIC

Qualifier Notes:

- ND not detected
- NQ concentration can not be quantified due to possible interferences or coelutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
- SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
- INV Invalid.
- J Reported concentration is below SDL.
- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.
- E Reported concentration exceeds the upper limit of instrument calibration.
- M Result modified from previous result.
- T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control.
- H Not all associated hold time specifications were met. Data may be biased.
- C Sample received with a missing or broken custody seal.
- R Sample received with a missing or incomplete chain of custody.
- I Sample received without a legible unique identifier.
- G Sample received in an improper container.
- U Sample received with insufficient sample volume.
- W Sample recevied with insufficient preservation.

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Susan Hoelscher

From:

Hattie Waites

Sent:

Monday, June 12, 2017 4:10 PM

To:

Susan Hoelscher

Cc: Subject: Frank Martinez

Request Report 1705016

Attachments: 1705016.pdf

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ATTACHMENT Citizen Collected Evidence

Total Pages: 15

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

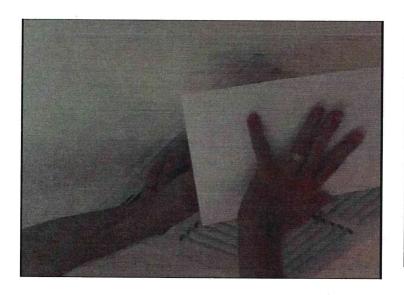
May 16, 2017 - September 8, 2017

Refer to the CONFIDENTIAL FILE

for the original Citizen Collected Evidence (CCE)

submitted during the course of

Investigation No. 1415945.



Subject: Collection of metallic particles in Citizen 43's AC vent inside the kitchen

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: May 19, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7646 2.MOV)

Photo No. 1



Subject: Collection of metallic particles from

Citizen 43's AC vent inside the kitchen

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland

County: San Patricio
Date: May 19, 2017
Photographer: Citizen 4

Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7646 2.MOV)

Photo No. 2



Subject: Demonstration of magnetic property of the metallic particles from Citizen 43's AC

vent inside the kitchen

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: May 19, 2017

Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7646 2.MOV)



Subject: Dog bowl (stainless steel) that was cleaned/scrubbed, filled with fresh water, and left in the middle of the Citizen 43's backyard

(at \sim 6 am)

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 7, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7686 2.mov)

Photo No. 4



Subject: Demonstration of magnetic property of the metallic particles accumulated in the dog bowl (stainless steel) within ~12 hours (6 am-6

pm) from Citizen 43's backyard Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 7, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7686 2.mov)

Photo No. 4



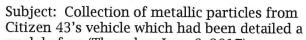
Subject: Demonstration of magnetic property of the metallic particles accumulated in the dog bowl (stainless steel) within ~12 hours (6 am-6

pm) from Citizen 43's backyard Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 7, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7686 2.mov)





week before (Thursday, June 8, 2017) Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 15, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 15, 2017 Truck Black

Dust.mov) Photo No. 6



Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed a

week before (Thursday, June 8, 2017) Location: Citizen 43's Residence TCEO Incident No. 258299

City: Portland

County: San Patricio Date: June 15, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 15, 2017 Truck Black Dust.mov)

Photo No. 7



Subject: Accumulation of metallic particles from Citizen 43's vehicle which had been detailed a week before (Thursday, June 2, 2017)

detailed a week before (Thursday, June 8, 2017)

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 15, 2017 Photographer: Citizen 43

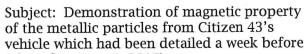
Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 15, 2017 Truck Black

Dust.mov) Photo No. 8





(Thursday, June 8, 2017)

Location: Citizen 43's Residence TCEO Incident No. 258299

City: Portland County: San Patricio Date: June 15, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 15, 2017 Truck Black

Dust.mov) Photo No. 9



Subject: Demonstration of magnetic property of the metallic particles from Citizen 43's vehicle which had been detailed a week before

(Thursday, June 8, 2017)

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 15, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 15, 2017 Truck Black

Dust.mov) Photo No. 10



Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed

the previous Friday, June 16, 2017 Location: Citizen 43's Residence TCEO Incident No. 258299

City: Portland

County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 11



Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed

the previous Friday, June 16, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 12



Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed

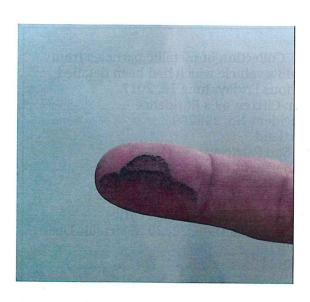
the previous Friday, June 16, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 13



Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed

the previous Friday, June 16, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

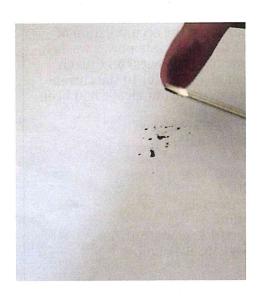
TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 14







Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed

the previous Friday, June 16, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 15

Subject: Collection of metallic particles from Citizen 43's vehicle which had been detailed

the previous Friday, June 16, 2017 Location: Citizen 43's Residence TCEO Incident No. 258299

City: Portland

County: San Patricio
Date: June 22, 2017
Photographer: Citizen 43
Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 16

Subject: Accumulation of metallic particles from Citizen 43's vehicle which had been detailed the previous Friday, June 16, 2017

Location: Citizen 43's Residence TCEQ Incident No. 258299

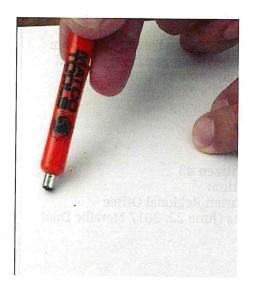
City: Portland

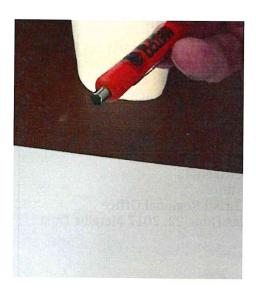
County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 17







Subject: Demonstration of magnetic property of the metallic particles from Citizen 43's vehicle which had been detailed the previous

Friday, June 16, 2017

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 18

Subject: Demonstration of magnetic property of the metallic particles from Citizen 43's vehicle which had been detailed the previous

Friday, June 16, 2017

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 22, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (June 22, 2017 Metallic Dust

Video.mov) Photo No. 19

Subject: Line indicating the accumulation of metallic particles (left light side power washed; right dark side metallic particles) on Citizen 43's exterior front alcove (prior to the current power wash, the exterior front alcove had been

cleaned in January 2017)

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 24, 2017 Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1415.mov)







Subject: Demonstration of magnetic property of the accumulated metallic particles power washed from Citizen 43's exterior front alcove

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1415.mov)

Photo No. 21

Subject: Demonstration of magnetic property of the accumulated metallic particles power washed from Citizen 43's exterior front alcove

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1415.mov)

Photo No. 22

Subject: Accumulation of metallic particles on Citizen 43's front sidewalk (top light area

power washed, bottom dark area metallic

particles)

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 24, 2017

Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1416.mov)



Subject: Demonstration of magnetic property of the accumulated metallic particles power washed from Citizen 43's front sidewalk

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 24, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1416.mov)

Photo No. 24



Subject: Demonstration of magnetic property of the accumulated metallic particles power washed from Citizen 43's front sidewalk

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio

Date: June 24, 2017 Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1416.mov)

Photo No. 25



Subject: Line indicating the accumulation of metallic particles on Citizen 43's front sidewalk (top dark area metallic particles, bottom light

area power washed)

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 24, 2017 Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1417.mov)



Subject: Demonstration of magnetic property of the accumulated metallic particles power washed from Citizen 43's front sidewalk

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1417.mov)

Photo No. 27



Subject: Demonstration of magnetic property of the accumulated metallic particles power washed from Citizen 43's front sidewalk

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 24, 2017 Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1417.mov)

Photo No. 28



Subject: Demonstration of magnetic property of the accumulated metallic particles on Citizen 43's front sidewalk after power washing the exterior front alcove and front sidewalk twice

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: June 24, 2017

Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1420.mov)







Subject: Demonstration of magnetic property of the embedded metallic particles on Citizen 43's front siding after power washing twice (prior to the current power washing, the siding was cleaned and painted in January 2017)

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017

Photographer: Citizen 43
Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1424.mov)

Photo No. 30

Subject: Demonstration of magnetic property of the embedded metallic particles on Citizen 43's front siding after power washing twice (prior to the current power washing, the siding was cleaned and painted in January 2017)

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017

Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_1424.mov)

Photo No. 31

Subject: Demonstration of accumulation of metallic particles on Citizen 43's back patio (left light area power washed, right dark area metallic particles)

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7756.mov)







Subject: Power washing the accumulation of metallic particles (reddish) on Citizen 43's front windows (red liquid runoff on left side of

window sill)

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: June 24, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (IMG_7749.mov)

Photo No. 33

Subject: Collection of metallic particles on Citizen 43's back patio window sill which had

been power washed on June 24, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: July 12, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (7/12/17 Back Patio.mov)

Photo No. 34

Subject: Demonstration of magnetic property of the accumulated metallic particles on Citizen 43's back patio window sill which had been

power washed on June 24, 2017 Location: Citizen 43's Residence

TCEQ Incident No. 258299

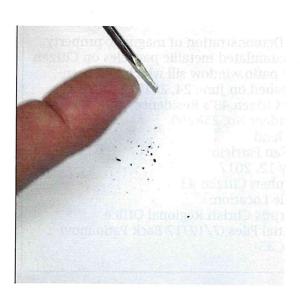
City: Portland County: San Patricio Date: July 12, 2017 Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (7/12/17 Back Patio.mov)







Subject: Demonstration of magnetic property of the accumulated metallic particles on Citizen 43's back patio window sill and electrical box which had been power washed on June 24,

2017

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: July 12, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (7/12/17 Back Patio.mov)

Photo No. 36

Subject: Collection of metallic particles on Citizen 43's front window sill which had been

power washed on June 24, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: July 12, 2017 Photographer: Citizen 43

Digital File Location:

TCEQ Corpus Christi Regional Office Confidential Files (7/12/17 Front Yard.mov)

Photo No. 37

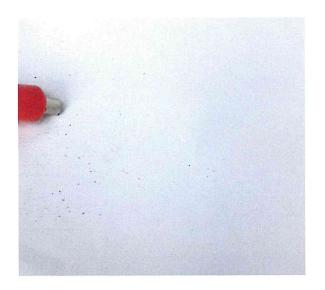
Subject: Collection of metallic particles on Citizen 43's front window sill which had been

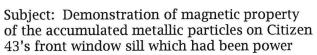
power washed on June 24, 2017 Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: July 12, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (7/12/17 Front Yard.mov)





washed on June 24, 2017

Location: Citizen 43's Residence TCEQ Incident No. 258299

City: Portland County: San Patricio Date: July 12, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (7/12/17 Front Yard.mov)

Photo No. 39



Subject: Demonstration of magnetic property of the accumulated metallic particles on Citizen 43's front window sill which had been power

washed on June 24, 2017

Location: Citizen 43's Residence

TCEQ Incident No. 258299

City: Portland

County: San Patricio Date: July 12, 2017 Photographer: Citizen 43 Digital File Location:

TCEQ Corpus Christi Regional Office

Confidential Files (7/12/17 Front Yard.mov)



ATTACHMENT 12 TCEQ Heavy Metal Sample Results

Total Pages: 28

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

July 05, 2017

Kendra Bernhagen Texas Commission on Environmental Quality 6300 Ocean Drive Unit 5839 NRC Building Suite 1200 Corpus Christi, TX 78412

Work Order: HS17051351

Laboratory Results for: TCEQ Region 14 COC 51689

Dear Kendra,

ALS Environmental received 10 sample(s) on May 25, 2017 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal

Dane J. Wacasey

Right Solutions · Right Partner

www.alsglobal.com

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Work Order: HS17051351

SAMPLE SUMMARY

Lab	Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS1	7051351-01	-01-Remet Pile	Solid		24-May-2017 10:50	25-May-2017 08:30	
HS1	7051351-02	-02-HBI Chips & Fines	Solid		24-May-2017 10:55	25-May-2017 08:30	
HS1	7051351-03	-03-Remet/Fines/Iron Oxide Pellets	Solid		24-May-2017 11:05	25-May-2017 08:30	
HS1	7051351-04	-04-HBI Fines	Solid		24-May-2017 11:20	25-May-2017 08:30	
HS1	7051351-05	-05-Remet & HBI Fines	Solid		24-May-2017 11:30	25-May-2017 08:30	
HS1	7051351-06	-06-Iron Oxide Fines	Solid		24-May-2017 11:35	25-May-2017 08:30	
HS1	7051351-07	-07-Coated Iron Oxide Pellets	Solid		24-May-2017 11:45	25-May-2017 08:30	
HS1	7051351-08	-08-Iron Oxide Pellets	Solid		24-May-2017 11:50	25-May-2017 08:30	
HS1	7051351-09	-09-HBI Fines Cold Briquettes	Solid		24-May-2017 11:55	25-May-2017 08:30	
HS1	7051351-10	-010-HBI Fines	Solid		24-May-2017 12:00	25-May-2017 08:30	

ALS Group USA, Corp

Client:

Texas Commission on Environmental Quality

CASE NARRATIVE

Date:

05-Jul-17

Project:

TCEQ Region 14 COC 51689

Work Order:

HS17051351

Metals by Method SW6020

Batch ID: 116664

Sample ID: -01-Remet Pile (HS17051351-01)

· Sample ran at a 50x due to high Iron concentration.

Sample ID: -010-HBI Fines (HS17051351-10)

· Sample ran at a 10x due to high Iron concentration.

Sample ID: -02-HBI Chips & Fines (HS17051351-02)

· Sample ran at a 50x due to high Iron concentration.

Sample ID: -03-Remet/Fines/Iron Oxide Pellets (HS17051351-03)

• Sample ran at a 10x due to high Iron concentration.

Sample ID: -04-HBI Fines (HS17051351-04)

· Sample ran at a 10x due to high Iron concentration.

Sample ID: -05-Remet & HBI Fines (HS17051351-05)

· Sample ran at a 5x due to high Iron concentration.

Sample ID: -06-Iron Oxide Fines (HS17051351-06)

· Sample ran at a 5x due to high Iron concentration.

Sample ID: -09-HBI Fines Cold Briquettes (HS17051351-09)

· Sample ran at a 10x due to high Iron concentration.

Sample ID: HS17051306-07MS

· MS/MSD and DUPs are for an unrelated sample

Metals by Method SW7471A

Batch ID: 116660

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

BHI WANTER THE BUREAUTE

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Sample ID: Collection Date: -01-Remet Pile 24-May-2017 10:50 **ANALYTICAL REPORT**

WorkOrder:HS17051351 Lab ID:HS17051351-01

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		Method:SW6020		Prep:SW3050A	A / 30-May-2017	Analyst: JDE
Aluminum	424		9.40	mg/Kg	50	31-May-2017 18:1
Antimony	< 4.70	2	4.70	mg/Kg	50	31-May-2017 18:1
Arsenic	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Barium	14.3		4.70	mg/Kg	50	30-May-2017 21:08
Beryllium	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Cadmium	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Calcium	752		470	mg/Kg	50	30-May-2017 21:08
Chromium	35.9		4.70	mg/Kg	50	30-May-2017 21:08
Cobalt	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Copper	3.63	the control of the co	1.88	mg/Kg	50	30-May-2017 21:08
Iron	401,000		4700	mg/Kg	500	31-May-2017 15:16
Lead	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Magnesium	< 470		470	mg/Kg	50	30-May-2017 21:08
Manganese	164	NOTIFICATION OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND THE PROPERTY	4.70	mg/Kg	50	30-May-2017 21:08
Molybdenum	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Nickel	< 4.70	The second between the control of the second	4.70	mg/Kg	50	30-May-2017 21:08
Potassium	< 470		470	mg/Kg	50	30-May-2017 21:08
Selenium	< 4.70	a his national file to the age of the state, and a real broad-state of the state of	4.70	mg/Kg	50	30-May-2017 21:08
Silver	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Sodium	< 470	and a residence of the second	470	mg/Kg	50	30-May-2017 21:08
Strontium	6.69		4.70	mg/Kg	50	30-May-2017 21:08
Thallium	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Tin	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08
Titanium	90.9		4.70	mg/Kg	50	30-May-2017 21:08
Vanadium	7.56		4.70	mg/Kg	50	30-May-2017 21:08
Zinc	< 4.70		4.70	mg/Kg	50	30-May-2017 21:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Sample ID: Collection Date: -02-HBI Chips & Fines 24-May-2017 10:55

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-02

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		Method:SW6020		Prep:SW3050A	/ 30-May-2017	Analyst: JD
Aluminum	1,400		27.8	mg/Kg	50	31-May-2017 18:2
Antimony	< 13.9	NATIONAL STATEMENT OF THE BEST SECTION AND SECTION ASSESSMENT OF THE S	13.9	mg/Kg	50	31-May-2017 18:2
Arsenic	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Barium	20,5		13.9	mg/Kg	50	30-May-2017 21:1
Beryllium	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Cadmium	< 13.9	A DE TRANSPORTER PRODUCTION CONTRACTOR DE LA CONTRACTOR D	13.9	mg/Kg	50	30-May-2017 21:1
Calcium	2,150		1390	mg/Kg	50	30-May-2017 21:1
Chromium	140	antino del 11 metero de 11 de 1914 de	13.9	mg/Kg	50	30-May-2017 21:1
Cobalt	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Copper	< 5.55	Committee of the Commit	5.55	mg/Kg	50	30-May-2017 21:1
Iron	719,000		13900	mg/Kg	500	31-May-2017 15:2
Lead	< 13.9	AND THE RESIDENCE OF THE PARTY	13.9	mg/Kg	50	30-May-2017 21:1
Magnesium	< 1390		1390	mg/Kg	50	30-May-2017 21:1
Manganese	385	the man with the company of the control of the cont	13.9	mg/Kg	50	30-May-2017 21:1
Molybdenum	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Nickel	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Potassium	< 1390		1390	mg/Kg	50	30-May-2017 21:1
Selenium	< 13.9	T	13.9	mg/Kg	50	30-May-2017 21:1
Silver	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Sodium	< 1390	per lan lang to a see annotes has interested a second security and the second s	1390	mg/Kg	50	30-May-2017 21:1
Strontium	17.9		13.9	mg/Kg	50	30-May-2017 21:1
Thallium	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Tin	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1
Titanium	349	Orași da April Maria (Constituturul Constituturul Constitu	13.9	mg/Kg	50	30-May-2017 21:1
Vanadium	51.0		13.9	mg/Kg	50	30-May-2017 21:1
Zinc	< 13.9		13.9	mg/Kg	50	30-May-2017 21:1

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RICHT SOCUTIONS TOOM PARTITION

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Sample ID:

-03-Remet/Fines/Iron Oxide Pellets

Collection Date:

24-May-2017 11:05

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-03

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		Method:SW6020	TO THE PERSON OF	Prep:SW3050	A / 30-May-2017	Analyst: JDE
Aluminum	1,530		9.43	mg/Kg	10	31-May-2017 18:35
Antimony	< 4.72	and the section of th	4.72	mg/Kg	10	31-May-2017 18:35
Arsenic	< 4.72		4.72	mg/Kg	10	30-May-2017 21:17
Barium	31.7		4.72	mg/Kg	10	30-May-2017 21:17
Beryllium	< 4.72		4.72	mg/Kg	10	30-May-2017 21:17
Cadmium	< 4.72	A CONTRACTOR OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	4.72	mg/Kg	10	30-May-2017 21:17
Calcium	4,940		472	mg/Kg	10	30-May-2017 21:17
Chromium	156	A CONTRACTOR OF SERVICE CONTRACTOR OF SERVICE SERVICES	4.72	mg/Kg	10	30-May-2017 21:17
Cobalt	< 4.72		4.72	mg/Kg	10	30-May-2017 21:17
Copper	4.57	on the construction and a set of the security of the construction of the security of the security of the construction of the security of the s	1.89	mg/Kg	10	30-May-2017 21:17
Iron	748,000		4720	mg/Kg	100	31-May-2017 15:34
Lead	< 4.72	openinasion materials and a supposed control Magazinian propriet in the Committee and the Committee of the C	4.72	mg/Kg	10	30-May-2017 21:17
Magnesium	< 472		472	mg/Kg	10	30-May-2017 21:17
Manganese	452		4.72	mg/Kg	10	30-May-2017 21:17
Molybdenum	< 4.72		4.72	mg/Kg	10	30-May-2017 21:17
Nickel	6.15	ACTION AND AN ARTHUR PROPERTY AND ARTHUR ART	4.72	mg/Kg	10	30-May-2017 21:17
Potassium	< 472		472	mg/Kg	10	30-May-2017 21:17
Selenium	< 4.72	A A AND A MANAGEMENT OF THE RESIDENCE OF THE PARTY OF THE	4.72	mg/Kg	10	30-May-2017 21:17
Silver	< 4.72		4.72	mg/Kg	10	30-May-2017 21:17
Sodium	< 472		472	mg/Kg	10	30-May-2017 21:17
Strontium	25.2		4.72	mg/Kg	10	30-May-2017 21:17
Thallium	< 4.72	NAME OF THE PARTY	4.72	mg/Kg	10	30-May-2017 21:17
Tin	< 4.72		4.72	mg/Kg	10	30-May-2017 21:17
Titanium	353		4.72	mg/Kg	10	30-May-2017 21:17
Vanadium	58.9		4.72	mg/Kg	10	30-May-2017 21:17
Zinc	4.81		4.72	mg/Kg	10	30-May-2017 21:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Sample ID: Collection Date:

24-May-2017 11:20

-04-HBI Fines

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-04

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		Method:SW6020		Prep:SW3050/	4 / 30-May-2017	Analyst: JDE
Aluminum	1,570		9.54	mg/Kg	10	31-May-2017 18:40
Antimony	< 4.77	CONTRACTOR OF THE PROPERTY OF	4.77	mg/Kg	10	31-May-2017 18:40
Arsenic	< 4.77		4.77	mg/Kg	10	30-May-2017 21:22
Barium	34.4		4.77	mg/Kg	10	30-May-2017 21:22
Beryllium	< 4.77		4.77	mg/Kg	10	30-May-2017 21:22
Cadmium	< 4.77	y des a 1986 — Il 1986 a la Radio Associa dell'imperiora policifia de Associa (1987 NA POLITICA (1987	4.77	mg/Kg	10	30-May-2017 21:22
Calcium	7,000		477	mg/Kg	10	30-May-2017 21:22
Chromium	107	and the state of the company of the state of	4.77	mg/Kg	10	30-May-2017 21:22
Cobalt	28.6		4.77	mg/Kg	10	30-May-2017 21:22
Copper	7.06	en ann an An	1.91	mg/Kg	10	30-May-2017 21:22
Iron	677,000		4770	mg/Kg	100	31-May-2017 15:38
Lead	< 4.77	emining of a common secure secure of the company of the common of the co	4.77	mg/Kg	10	30-May-2017 21:22
Magnesium	1,410		477	mg/Kg	10	30-May-2017 21:22
Manganese	570	POC - 10 1 1 - 10 this carried M relatives (ME) (a) in the reference of American (ME) (1)	4.77	mg/Kg	10	30-May-2017 21:22
Molybdenum	< 4.77		4.77	mg/Kg	10	30-May-2017 21:22
Nickel	69.9	ter i i i i i i i i i i i i i i i i i i i	4.77	mg/Kg	10	30-May-2017 21:22
Potassium	< 477		477	mg/Kg	10	30-May-2017 21:22
Selenium	< 4.77		4.77	mg/Kg	10	30-May-2017 21:22
Silver	< 4.77		4.77	mg/Kg	10	30-May-2017 21:22
Sodium	< 477	THE CONTRACTOR OF STREET AND ADMINISTRAL PROPERTY OF STREET, WHICH STREET, STR	477	mg/Kg	10	30-May-2017 21:22
Strontium	25.6		4.77	mg/Kg	10	30-May-2017 21:22
Thallium	< 4.77	The same of the sa	4.77	mg/Kg	10	30-May-2017 21:22
Tin	< 4.77		4.77	mg/Kg	10	30-May-2017 21:22
Titanium	520	e errestata printana (1911. promotificadoridadorio - folos de sido a (1911 - Estropo-April Applicano estre 1990) a sido e April	4.77	mg/Kg	10	30-May-2017 21:22
Vanadium	430		4.77	mg/Kg	10	30-May-2017 21:22
Zinc	16.5	M. Carrier and a company of the Commission of the September 2, seconds, seconds by the company of the commission of the	4.77	mg/Kg	10	30-May-2017 21:22
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A	/ 30-May-2017	Analyst: JC
Mercury	< 0.00355		0.00355	mg/Kg	1	30-May-2017 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

PERMITS FOREST ALS PRINTS

Client:

Texas Commission on Environmental Quality

Project: Sample ID: TCEQ Region 14 COC 51689

Collection Date:

24-May-2017 11:30

-05-Remet & HBI Fines

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-05

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 30-May-20			
Aluminum	2,090		91.7	mg/Kg	100	31-May-2017 15:43	
Antimony	< 2.29	THE RESERVE OF THE PARTY OF THE	2.29	mg/Kg	5	31-May-2017 18:44	
Arsenic	3.02		2.29	mg/Kg	5	31-May-2017 18:44	
Barium	25.3		2.29	mg/Kg	5	31-May-2017 18:44	
Beryllium	< 2.29		2,29	mg/Kg	5	31-May-2017 18:44	
Cadmium	< 2.29	The second state of the second state of the second	2.29	mg/Kg	5	31-May-2017 18:44	
Calcium	9,590		229	mg/Kg	5	31-May-2017 18:44	
Chromium	42.1	AND THE RESIDENCE OF THE PARTY	2.29	mg/Kg	5	31-May-2017 18:44	
Cobalt	< 2.29		2.29	mg/Kg	5	31-May-2017 18:44	
Copper	3.23	A A A STREET, A A STREET, AND ASSESSED TO RECOVER THE PROPERTY OF THE PROPERTY	0.917	mg/Kg	5	31-May-2017 18:44	
Iron	82,100		4590	mg/Kg	100	31-May-2017 15:43	
Lead	< 2.29		2.29	mg/Kg	5	31-May-2017 18:44	
Magnesium	987		229	mg/Kg	5	31-May-2017 18:44	
Manganese	198	AND THE RESIDENCE AND THE PROPERTY OF THE PARTY OF THE PA	2.29	mg/Kg	5	31-May-2017 18:44	
Molybdenum	< 2.29		2.29	mg/Kg	5	31-May-2017 18:44	
Nickel	2.68	and the state of t	2.29	mg/Kg	5	31-May-2017 18:44	
Potassium	< 229		229	mg/Kg	5	31-May-2017 18:44	
Selenium	< 2.29	Control of the Control of Control	2.29	mg/Kg	5	31-May-2017 18:44	
Silver	< 2.29		2.29	mg/Kg	5	31-May-2017 18:44	
Sodium	< 229		229	mg/Kg	5	31-May-2017 18:44	
Strontium	19.8		2.29	mg/Kg	5	31-May-2017 18:44	
Thallium	< 2.29		2.29	mg/Kg	5	31-May-2017 18:44	
Tin	< 2.29		2.29	mg/Kg	5	31-May-2017 18:44	
Titanium	51.2	CONTRACTOR OF THE PARTY OF THE	2.29	mg/Kg	5	31-May-2017 18:44	
Vanadium	20.2		2.29	mg/Kg	5	31-May-2017 18:44	
Zinc	5.64		2.29	mg/Kg	5	31-May-2017 18:44	
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A	/ 30-May-2017	Analyst: JC	
Mercury	< 0.00359		0.00359	mg/Kg	1	30-May-2017 16:49	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Project: Texas Commission on Environmental Quality

TCEQ Region 14 COC 51689

Sample ID: Collection Date: -06-Iron Oxide Fines 24-May-2017 11:35

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-06

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A		Method:SW6020	, а пао 4 г.	Prep:SW3050A	\ / 30-May-2017	Analyst: JDE
Aluminum	2,810		95.2	mg/Kg	100	31-May-2017 15:48
Antimony	< 2.38	The second secon	2.38	mg/Kg	5	31-May-2017 18:49
Arsenic	2.78		2.38	mg/Kg	5	31-May-2017 18:49
Barium	28.1	and the second of the second s	2.38	mg/Kg	5 .	31-May-2017 18:49
Beryllium	< 2.38		2.38	mg/Kg	5	31-May-2017 18:49
Cadmium	< 2.38	The state of the s	2.38	mg/Kg	5	31-May-2017 18:49
Calcium	15,100		238	mg/Kg	5	31-May-2017 18:49
Chromium	34.3		2.38	mg/Kg	5	31-May-2017 18:49
Cobalt	7.74		2.38	mg/Kg	5	31-May-2017 18:49
Copper	3.17		0.952	mg/Kg	5	31-May-2017 18:49
Iron	122,000		4760	mg/Kg	100	31-May-2017 15:48
Lead	7.06		2.38	mg/Kg	5	31-May-2017 18:49
Magnesium	1,150		238	mg/Kg	5	31-May-2017 18:49
Manganese	232	ACTION OF THE PARTY OF THE PART	2.38	mg/Kg	5	31-May-2017 18:49
Molybdenum	< 2.38		2.38	mg/Kg	5	31-May-2017 18:49
Nickel	19.2		2.38	mg/Kg	5	31-May-2017 18:49
Potassium	< 238		238	mg/Kg	5	31-May-2017 18:49
Selenium	< 2.38		2.38	mg/Kg	5	31-May-2017 18:49
Silver	< 2.38		2.38	mg/Kg	5	31-May-2017 18:49
Sodium	< 238	The state of the s	238	mg/Kg	5	31-May-2017 18:49
Strontium	23.3		2.38	mg/Kg	5	31-May-2017 18:49
Thallium	< 2.38		2.38	mg/Kg	5	31-May-2017 18:49
Tin	< 2.38		2.38	mg/Kg	5	31-May-2017 18:49
Titanium	88.3		2.38	mg/Kg	5	31-May-2017 18:49
Vanadium	110		2.38	mg/Kg	5	31-May-2017 18:49
Zinc	8.43		2.38	mg/Kg	5	31-May-2017 18:49
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A	/ 30-May-2017	Analyst: JC
Mercury	0.00382		0.00347	mg/Kg	1	30-May-2017 16:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

FOR SOLITON TRION PARTIC

Client:

Texas Commission on Environmental Quality

Project: Sample ID: TCEQ Region 14 COC 51689 -07-Coated Iron Oxide Pellets

Collection Date:

24-May-2017 11:45

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-07

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION	DATE ANALYZED
METALS BY SW6020A		Method:SW6020		Prep:SW3050A	A / 30-May-2017	Analyst: JDE
Aluminum	420		7.20	mg/Kg	10	31-May-2017 15:52
Antimony	< 0.360	A COMMUNICATION OF STREET WAS NOT THE STREET WAS NOT THE STREET WAS A	0.360	mg/Kg	1	31-May-2017 18:53
Arsenic	1.35		0.360	mg/Kg	1	31-May-2017 18:53
Barium	36.4	A REAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE	0.360	mg/Kg	1	31-May-2017 18:53
Beryllium	< 0.360		0.360	mg/Kg	1	31-May-2017 18:53
Cadmium	< 0.360	and controlled to a larger where the second controlled in the second second control and the second s	0.360	mg/Kg	1	31-May-2017 18:53
Calcium	8,990		36.0	mg/Kg	1	31-May-2017 18:53
Chromium	6.41	ACT TO THE ORIGINAL PROPERTY AND THE TAXABLE PARTY AND THE PROPERTY AND THE PARTY AND	0.360	mg/Kg	1	31-May-2017 18:53
Cobalt	0.643		0.360	mg/Kg	1	31-May-2017 18:53
Copper	1.74	and the second s	0.144	mg/Kg	1	31-May-2017 18:53
Iron	17,200		360	mg/Kg	10	31-May-2017 15:52
Lead	1.74		0.360	mg/Kg	1	31-May-2017 18:53
Magnesium	759		36.0	mg/Kg	1	31-May-2017 18:53
Manganese	61.2		0.360	mg/Kg	1	31-May-2017 18:53
Molybdenum	0.884		0.360	mg/Kg	1	31-May-2017 18:53
Nickel	1.65	MARKET (CORPORATION AND ADDRESS AND A STATE OF THE PARTY	0.360	mg/Kg	1	31-May-2017 18:53
Potassium	49.4		36.0	mg/Kg	1	31-May-2017 18:53
Selenium	< 0.360	Let the an administration of the state of th	0.360	mg/Kg	1	31-May-2017 18:53
Silver	< 0.360		0.360	mg/Kg	1	31-May-2017 18:53
Sodium	109		36.0	mg/Kg	1	31-May-2017 18:53
Strontium	17.0		0.360	mg/Kg	1	31-May-2017 18:53
Thallium	< 0.360	THE RESIDENCE OF THE RESIDENCE AND THE RESIDENCE OF THE R	0.360	mg/Kg	1	31-May-2017 18:53
Tin	< 0.360		0.360	mg/Kg	1	31-May-2017 18:53
Titanium	9.20		0.360	mg/Kg	1	31-May-2017 18:53
Vanadium	13.9		0.360	mg/Kg	1	31-May-2017 18:53
Zinc	3.06	nesse from the A. S. Courte San Cas a section of the Cas and the C	0.360	mg/Kg	1	31-May-2017 18:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Sample ID: Collection Date: -08-Iron Oxide Pellets 24-May-2017 11:50

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-08

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION	DATE ANALYZED
METALS BY SW6020A		Method:SW6020		Prep:SW3050A	/ 30-May-2017	Analyst: JDE
Aluminum	414		6.25	mg/Kg	10	31-May-2017 15:5
Antimony	< 0.313		0.313	mg/Kg	1	31-May-2017 18:5
Arsenic	2.07		0.313	mg/Kg	1	31-May-2017 18:5
Barium	27.0	ACCORDINATION OF THE PROPERTY	0.313	mg/Kg	1	31-May-2017 18:5
Beryllium	< 0.313		0.313	mg/Kg	1	31-May-2017 18:5
Cadmium	< 0.313	Company of the Compan	0.313	mg/Kg	1	31-May-2017 18:5
Calcium	12,800		313	mg/Kg	10	31-May-2017 15:5
Chromium	5.86	The second secon	0.313	mg/Kg	1	31-May-2017 18:5
Cobalt	0.564		0.313	mg/Kg	1	31-May-2017 18:5
Copper	1.34		0.125	mg/Kg	1	31-May-2017 18:5
Iron	15,800		313	mg/Kg	10	31-May-2017 15:5
Lead	1.11		0.313	mg/Kg	-1.	31-May-2017 18:5
Magnesium	901		31.3	mg/Kg	1	31-May-2017 18:5
Manganese	48.4	EX / Temperature S	0.313	mg/Kg	1	31-May-2017 18:5
Molybdenum	1.15		0.313	mg/Kg	1	31-May-2017 18:5
Nickel	1.38	AND THE SAME OF A THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY A	0.313	mg/Kg	1	31-May-2017 18:5
Potassium	58.6		31.3	mg/Kg	1	31-May-2017 18:5
Selenium	< 0.313		0.313	mg/Kg	1	31-May-2017 18:5
Silver	< 0.313		0.313	mg/Kg	1	31-May-2017 18:5
Sodium	109	CONTRACTOR OF ACT AND ADDRESS OF THE PARTY O	31.3	mg/Kg	1	31-May-2017 18:5
Strontium	21.8		0.313	mg/Kg	1	31-May-2017 18:5
Thallium	< 0.313	A PARTY TO THE TRANSPORT OF THE THE TRANSPORT OF THE TRAN	0.313	mg/Kg	1	31-May-2017 18:5
Tin	< 0.313		0.313	mg/Kg	1	31-May-2017 18:5
Titanium	6.61		0.313	mg/Kg	1	31-May-2017 18:5
Vanadium	23.9	9	0.313	mg/Kg	1	31-May-2017 18:5
Zinc	3.09	A CONTRACT OF THE PARTY OF THE	0.313	mg/Kg	1	31-May-2017 18:5

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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Client:

Texas Commission on Environmental Quality

Project: Sample ID: TCEQ Region 14 COC 51689 -09-HBI Fines Cold Briquettes

Collection Date:

24-May-2017 11:55

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-09

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION	DATE ANALYZED
METALS BY SW6020A	111	Method:SW6020		Prep:SW3050	A / 30-May-2017	Analyst: JDE
Aluminum	4,010		92.0	mg/Kg	100	31-May-2017 16:01
Antimony	< 4.60	The second secon	4.60	mg/Kg	10	31-May-2017 19:02
Arsenic	< 4.60		4.60	mg/Kg	10	30-May-2017 21:45
Barium	35,4	nami ni minada maka karan mengangan karananan na karanan menangan mengan mengan mengan mengan mengan mengan me S	4.60	mg/Kg	10	30-May-2017 21:45
Beryllium	< 4.60		4.60	mg/Kg	10	30-May-2017 21:45
Cadmium	< 4.60		4.60	mg/Kg	10	30-May-2017 21:45
Calcium	12,000		460	mg/Kg	10	30-May-2017 21:45
Chromium	98.1	AND THE RESERVE OF THE PROPERTY OF THE PROPERT	4.60	mg/Kg	10	30-May-2017 21:45
Cobalt	25.2		4.60	mg/Kg	10	30-May-2017 21:45
Copper	6.58	Constitution of the second	1.84	mg/Kg	10	30-May-2017 21:45
Iron	555,000		4600	mg/Kg	100	31-May-2017 16:01
Lead	86.1	The second secon	4.60	mg/Kg	10	30-May-2017 21:45
Magnesium	2,280		460	mg/Kg	10	30-May-2017 21:45
Manganese	495	AND RESIDENCE OF A STREET STORY OF THE STREET STREE	4.60	mg/Kg	10	30-May-2017 21:45
Molybdenum	< 4.60		4.60	mg/Kg	10	30-May-2017 21:45
Nickel	63.8	The second contract of the second sec	4.60	mg/Kg	10	30-May-2017 21:45
Potassium	< 460		460	mg/Kg	10	30-May-2017 21:45
Selenium	< 4.60	AND ADDRESS OF THE PROPERTY OF	4.60	mg/Kg	10	30-May-2017 21:45
Silver	< 4.60		4.60	mg/Kg	10	30-May-2017 21:45
Sodium	< 460	THE PERSON NAMED AND PARTY OF THE PERSON OF	460	mg/Kg	10	30-May-2017 21:45
Strontium	28.4		4.60	mg/Kg	10	30-May-2017 21:45
Thallium	< 4.60		4,60	mg/Kg	10	30-May-2017 21:45
Tin	10.6		4.60	mg/Kg	10	30-May-2017 21:45
Titanium	460		4.60	mg/Kg	10	30-May-2017 21:45
Vanadium	434		4.60	mg/Kg	10	30-May-2017 21:45
Zinc	21.4	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	4.60	mg/Kg	10	30-May-2017 21:45
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471	A / 30-May-2017	Analyst: JC
Mercury	< 0.00360		0.00360	mg/Kg	1	30-May-2017 16:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

Sample ID:

-010-HBI Fines

Collection Date: 24-May-2017 12:00

ANALYTICAL REPORT

WorkOrder:HS17051351 Lab ID:HS17051351-10

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY SW6020A	_	Method:SW6020	1 1 1 3 N	Prep:SW3050A	A / 30-May-2017	Analyst: JDE
Aluminum	4,600		92.4	mg/Kg	100	31-May-2017 16:06
Antimony	< 4.62		4.62	mg/Kg	10	31-May-2017 19:07
Arsenic	5.15		4.62	mg/Kg	10	30-May-2017 21:50
Barium	28,0	The second section is a second se	4.62	mg/Kg	10	30-May-2017 21:50
Beryllium	< 4.62		4.62	mg/Kg	10	30-May-2017 21:50
Cadmium	< 4.62	THE RESERVE OF THE STREET	4.62	mg/Kg	10	30-May-2017 21:50
Calcium	9,680		462	mg/Kg	10	30-May-2017 21:50
Chromium	120	The second secon	4.62	mg/Kg	10	30-May-2017 21:50
Cobalt	6.07		4.62	mg/Kg	10	30-May-2017 21:50
Copper	5.81	NATIONAL AND	1.85	mg/Kg	10	30-May-2017 21:50
Iron	590,000		4620	mg/Kg	100	31-May-2017 16:06
Lead	89.9	MET CONTRACTOR (CONTRACTOR) - SECT SORIE	4.62	mg/Kg	10	30-May-2017 21:50
Magnesium	< 462	38.	462	mg/Kg	10	30-May-2017 21:50
Manganese	391	Commission of the Commission o	4.62	mg/Kg	10	30-May-2017 21:50
Molybdenum	< 4.62		4.62	mg/Kg	10	30-May-2017 21:50
Nickel	17.7		4.62	mg/Kg	10	30-May-2017 21:50
Potassium	< 462		462	mg/Kg	10	30-May-2017 21:50
Selenium	< 4.62	ya anti ya dangan a sa kasan na maka ka maka ka	4.62	mg/Kg	10	30-May-2017 21:50
Silver	< 4.62		4.62	mg/Kg	10	30-May-2017 21:50
Sodium	< 462	AND ADDRESS OF THE PROPERTY OF THE PARTY OF	462	mg/Kg	10	30-May-2017 21:50
Strontium	30.0		4.62	mg/Kg	10	30-May-2017 21:50
Thallium	< 4.62	The state of the s	4.62	mg/Kg	10	30-May-2017 21:50
Tin	8.38		4.62	mg/Kg	10	30-May-2017 21:50
Titanium	285	The second secon	4.62	mg/Kg	10	30-May-2017 21:50
Vanadium	107		4.62	mg/Kg	10	30-May-2017 21:50
Zinc	17.4	AND THE RESERVE OF THE PARTY OF	4.62	mg/Kg	10	30-May-2017 21:50
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A	0.51	
Mercury	< 0.00349		0.00349	mg/Kg	1	30-May-2017 16:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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WEIGHT LOG

Client:

Texas Commission on Environmental Quality

Project:

HS17051351-10

TCEQ Region 14 COC 51689

WorkOrder: HS17051351

Batch ID: 116660	Metho	d: MERCU	JRY BY SW747	1B	Prep: HG_S_LOWPR
SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS17051351-04	1	0.5623	40 (mL)	71.14	4
HS17051351-05	1	0.5553	40 (mL)	72.03	3
HS17051351-06	1	0.5753	40 (mL)	69.53	3
HS17051351-09	1	0.5538	40 (mL)	72.23	3
HS17051351-10	1	0.5721	40 (mL)	69.92	2
Batch ID: 116664 SampID	Metho Container	d: METAL Sample Wt/Vol	S BY SW6020A Final Volume	Prep Factor	
HS17051351-01	1	2.6584	50 (mL)	18.81	
HS17051351-02	1	0.9004	50 (mL)	55.53	3
HS17051351-03	1	0.5301	50 (mL)	94.32	2
HS17051351-04	1	0.5239	50 (mL)	95.44	4
HS17051351-05	1	0.5451	50 (mL)	91.73	3
HS17051351-06	1	0.5254	50 (mL)	95,17	7
HS17051351-07	1	0.6949	50 (mL)	71.95	Section 1. The section of the sectio
HS17051351-08	1	0.7999	50 (mL)	62.51	
HS17051351-09	1	0.5435	50 (mL)	92	2

50 (mL)

0.5413

92.37

Client:

Texas Commission on Environmental Quality

Project: WorkOrder: TCEQ Region 14 COC 51689

HS17051351

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 11666	Test Name : Mi	ERCURY BY SW7471	В	Matrix: S	olid	
HS17051351-04	-04-HBI Fines	24 May 2017 11:20		30 May 2017 11:09	30 May 2017 16:45	1
HS17051351-05	-05-Remet & HBI Fines	24 May 2017 11:30		30 May 2017 11:09	30 May 2017 16:49	1
HS17051351-06	-06-Iron Oxide Fines	24 May 2017 11:35		30 May 2017 11:09	30 May 2017 16:51	1
HS17051351-09	-09-HBI Fines Cold Briquette	s 24 May 2017 11:55		30 May 2017 11:09	30 May 2017 16:52	1
HS17051351-10	-010-HBI Fines	24 May 2017 12:00		30 May 2017 11:09	30 May 2017 16:54	1
Batch ID 11666	Test Name : MI	ETALS BY SW6020A		Matrix: S		
HS17051351-01	-01-Remet Pile	24 May 2017 10:50		30 May 2017 11:38	31 May 2017 18:17	50
HS17051351-01	-01-Remet Pile	24 May 2017 10:50		30 May 2017 11:38	31 May 2017 15:16	500
HS17051351-01	-01-Remet Pile	24 May 2017 10:50		30 May 2017 11:38	30 May 2017 21:08	50
HS17051351-02	-02-HBI Chips & Fines	24 May 2017 10:55		30 May 2017 11:38	31 May 2017 18:22	50
HS17051351-02	-02-HBI Chips & Fines	24 May 2017 10:55		30 May 2017 11:38	31 May 2017 15:20	500
HS17051351-02	-02-HBI Chips & Fines	24 May 2017 10:55		30 May 2017 11:38	30 May 2017 21:13	50
HS17051351-03	-03-Remet/Fines/Iron Oxide Pellets	24 May 2017 11:05		30 May 2017 11:38	31 May 2017 18:35	10
HS17051351-03	-03-Remet/Fines/Iron Oxide	24 May 2017 11:05		30 May 2017 11:38	31 May 2017 15:34	100
HS17051351-03	Pellets -03-Remet/Fines/Iron Oxide Pellets	24 May 2017 11:05		30 May 2017 11:38	30 May 2017 21:17	10
HS17051351-04	-04-HBI Fines	24 May 2017 11:20		30 May 2017 11:38	31 May 2017 18:40	10
HS17051351-04	-04-HBI Fines	24 May 2017 11:20		30 May 2017 11:38	31 May 2017 15:38	100
HS17051351-04	-04-HBI Fines	24 May 2017 11:20		30 May 2017 11:38	30 May 2017 21:22	10
HS17051351-05	-05-Remet & HBI Fines	24 May 2017 11:30		30 May 2017 11:38	31 May 2017 18:44	5
HS17051351-05	-05-Remet & HBI Fines	24 May 2017 11:30		30 May 2017 11:38	31 May 2017 15:43	100
HS17051351-06	-06-Iron Oxide Fines	24 May 2017 11:35		30 May 2017 11:38	31 May 2017 18:49	5
HS17051351-06	-06-Iron Oxide Fines	24 May 2017 11:35		30 May 2017 11:38	31 May 2017 15:48	100
HS17051351-07	-07-Coated Iron Oxide Pellets	s 24 May 2017 11:45		30 May 2017 11:38	31 May 2017 18:53	1
HS17051351-07	-07-Coated Iron Oxide Pellets	s 24 May 2017 11:45		30 May 2017 11:38	31 May 2017 15:52	10
HS17051351-08	-08-Iron Oxide Pellets	24 May 2017 11:50		30 May 2017 11:38	31 May 2017 18:58	1
HS17051351-08	-08-Iron Oxide Pellets	24 May 2017 11:50		30 May 2017 11:38	31 May 2017 15:57	10
IS17051351-09	-09-HBI Fines Cold Briquette:	s 24 May 2017 11:55		30 May 2017 11:38	31 May 2017 19:02	10
IS17051351-09	-09-HBI Fines Cold Briquette:	s 24 May 2017 11:55		30 May 2017 11:38	31 May 2017 16:01	100
IS17051351-09	-09-HBI Fines Cold Briquettes	s 24 May 2017 11:55		30 May 2017 11:38	30 May 2017 21:45	10
IS17051351-10	-010-HBI Fines	24 May 2017 12:00		30 May 2017 11:38	31 May 2017 19:07	10
IS17051351-10	-010-HBI Fines	24 May 2017 12:00		30 May 2017 11:38	31 May 2017 16:06	100
HS17051351-10	-010-HBI Fines	24 May 2017 12:00		30 May 2017 11:38	30 May 2017 21:50	10

RICHT STEETHORS, PRINT PARTIER

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

QC BATCH REPORT

WorkOrder:

HS17051351

Batch ID:	116660	Instrui	ment:	HG03		Metho	d: SW747	1A	
MBLK	Sample ID:	MBLK-116660			ug/Kg		STATE OF THE PARTIES	30-May-2017 30-May-2017	
Client ID:		Run ID:	HG03	3_295498		4104740	The state of the s		. RPD
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC•	Control Limit		%RPD Limit Qua
Mercury		< 3.39	3.39				- 1		
LCS	Sample ID:	LCS-116660		Units:	ug/Kg	Ana	lysis Date:	30-May-2017	16:29
Client ID:		Run ID:	HG03	3_295498	SeqNo:	4104741	PrepDate:	30-May-2017	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		RPD %RPD Limit Qua
Mercury	1	353.4	3.42	342.4	0	103	85 - 115	4.5	
MS	Sample ID:	HS17051359-07MS		Units:	ug/Kg	Ana	lysis Date:	30-May-2017	17:04
Client ID:		Run ID:	HG03	3_295498	SeqNo: 4	4104757	PrepDate:	30-May-2017	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		RPD %RPD Limit Qua
Mercury		386.2	3.46	347.3	15.27	107	85 - 115		
MSD	Sample ID:	HS17051359-07MSD		Units:	ug/Kg	Ana	lysis Date:	30-May-2017	17:05
Client ID:		Run ID:	HG03	3_295498	SeqNo:	4104758	PrepDate:	30-May-2017	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Mercury		370.5	3.47	348.2	15.27	102	85 - 115	386.2	4.17 20
he following	g samples were analyze	d in this batch: HS17051351	1-04	HS1705135	1-05	HS170513	51-06	HS17051351-	.09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project: WorkOrder: TCEQ Region 14 COC 51689

HS17051351

QC BATCH REPORT

Batch ID: 1166	664		Instrument:	ICPMS04		Meth	od: SW602	0 = = = = = = = = = = = = = = = = = = =	- I - william age of "
MBLK	Sample ID:	MBLK-116664		Units:	mg/Kg	An	alysis Date:	31-May-201	7 14:53
Client ID:			Run ID: ICPN	/IS04_295528	SeqNo: 4	4106215	PrepDate:	30-May-201	7 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Aluminum		< 1.00	1.00						
Antimony	***	< 0.500	0.500				1.		
MBLK	Sample ID:	MBLK-116664		Units:	mg/Kg	An	alysis Date:	30-May-201	7 19:39
Client ID:			Run ID: ICPN	/IS04_295462	SeqNo: 4	4104976	PrepDate:	30-May-201	7 DF: 1
					SPK Ref		Control	RPD Ref	
Analyte	t. F	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD Limit Qua
Arsenic		< 0.500	0.500	-		Ξ			
Barium	-	< 0.500	0.500						
Beryllium		< 0.500	0.500						
Cadmium	-	< 0.500	0.500						
Calcium		< 50.0	50.0						
Chromium		< 0.500	0.500	0.					
Cobalt		< 0.500	0.500						
Copper		< 0.200	0.200	Control of the contro					
Iron		< 50.0	50.0						
Lead		< 0.500	0.500						
Magnesium		< 50.0	50.0				_		
Manganese		< 0.500	0.500						
Molybdenum		< 0.500	0.500						
Nickel		< 0.500	0.500						
Potassium		< 50.0	50.0						
Selenium		< 0.500	0.500						-
Silver		< 0.500	0.500						
Sodium		< 50.0	50.0						
Strontium		< 0.500	0.500						
Thallium		< 0.500	0.500						
Tin ,		< 0.500	0.500						
Titanium		< 0.500	0.500						
Vanadium		< 0.500	0.500						
Zinc		< 0.500	0.500				•		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

WorkOrder: HS17051351

QC BATCH REPORT

Batch ID: 1166	664	A State of the sta	Instrument:	ICPMS04		Metho	od: SW602	0	
LCS	Sample ID:	LCS-116664		Units:	mg/Kg	Ana	alysis Date:	31-May-2017	7 14:58
Client ID:		F	Run ID: ICPMS	S04_295528	SeqNo: 4	106216	PrepDate:	30-May-2017	7 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum		53.93	1.00	60	0	89.9	80 - 120		
Antimony		9.952	0.500	10	0	99.5	80 - 120		
100	0	1.00.440004	+	Linite:	mg/Kg	Δn	alveis Date:	30-May-2017	7 19-44
LCS	Sample ID:	LCS-116664	Run ID: ICPMS		SeqNo: 4			30-May-2017	
Client ID:		,	Rull ID. ICPINI	304_233402	SPK Ref	1104377	Control	5 2	RPD
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD Limit Qual
Arsenic		9.531	0.500	10	0	95.3	80 - 120		
Barium		9.741	0.500	10	0	97.4	80 - 120		
Beryllium		9.844	0.500	10	0	98.4	80 - 120		
Cadmium		9.65	0.500	10	0	96.5	80 - 120		
Calcium		977.6	50.0	1000	0	97.8	80 - 120		
Chromium		9.602	0.500	10	0	96.0	80 - 120		
Cobalt		9.603	0.500	10	0	96.0	80 - 120		
Copper		9.712	0.200	10	0	97.1	80 - 120		
Iron		962.1	50.0	1000	0	96.2	80 - 120		
Lead		9.619	0.500	10	0	96.2	80 - 120		
Magnesium		977.4	50.0	1000	0	97.7	80 - 120		
Manganese		9.506	0.500	10	. 0	95.1	80 - 120		v.
Molybdenum		9.998	0.500	10	0	100.0	80 - 120		
Nickel		9.635	0.500	10	0	96.4	80 - 120		
Potassium		996.3	50.0	1000	0	99.6	80 - 120		
Selenium		9.878	0.500	10	0	98.8	80 - 120		
Silver		9.697	0.500	10	0	97.0	80 - 120		
Sodium		1008	50.0	1000	0	101	80 - 120		
Strontium		10.06	0.500	10	0	101	80 - 120	te .	
Thallium		9.433	0.500	10	0	94.3	80 - 120		
Tin		9.922	0.500	10	0	99.2	80 - 120		
Titanium	×	19.87	0.500	20	0	99.3	80 - 120		****
Vanadium		9.656	0.500	10	0	96.6	80 - 120		
Zinc		9.594	0.500	10	0	95.9	80 - 120		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

WorkOrder:

HS17051351

QC BATCH REPORT

Batch ID: 1166	664	In	strument:	ICPMS04		Metho	od: SW602	0
MS	Sample ID:	HS17051306-07MS		Units:	mg/Kg	Ana	alysis Date:	30-May-2017 19:57
Client ID:		Rur	ID: ICPM	S04_295462	SeqNo: 4	1104980	PrepDate:	30-May-2017 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref RPD Value %RPD Limit Qual
Aluminum	, ,	11770	0.918	9.183	9284	27100	75 - 125	SEO
Arsenic		10.84	0.459	9.183	2.523	90.5	75 - 125	
Barium		77.17	0.459	9.183	68.16	98.1	75 - 125	0
Beryllium		10.34	0.459	9.183	0.5638	106	75 - 125	
Cadmium		8.575	0.459	9.183	0.1071	92.2	75 - 125	
Calcium		43820	45.9	918.3	43280	58.3	75 - 125	SEO
Chromium		21.23	0.459	9.183	10.82	113	75 - 125	
Cobalt		12.58	0.459	9.183	4.194	91.4	75 - 125	
Copper		14.68	0.184	9.183	6.546	88.6	75 - 125	
Iron		11540	45.9	918.3	9844	184	75 - 125	SO
Lead		13.93	0.459	9.183	5.609	90.7	75 - 125	
Magnesium		4579	45.9	918.3	3483	119	75 - 125	
Manganese		254.8	0.459	9.183	243.4	124	75 - 125	EO
Molybdenum		9.025	0.459	9.183	0.287	95.2	75 - 125	
Nickel		17.56	0.459	9.183	8.853	94.8	75 - 125	
Potassium		3384	45.9	918.3	1963	155	75 - 125	S
Selenium		8.889	0.459	9.183	0.9444	86.5	75 - 125	
Silver		8.478	0.459	9.183	0.03564	91.9	75 - 125	
Sodium		924.3	45.9	918.3	40.19	96.3	75 - 125	
Strontium		44.69	0.459	9.183	35.81	96.7	75 - 125	
Thallium		8.364	0.459	9.183	0.1411	89.5	75 - 125	
Tin		8.996	0.459	9.183	0.6286	91.1	75 - 125	
Titanium		222.2	0.459	18.37	150.1	393	75 - 125	SEC
Vanadium	***************************************	29.66	0.459	9.183	18.57	121	75 - 125	
Zinc		33.23	0.459	9.183	22.45	117	75 - 125	
MS	Sample ID:	HS17051306-07MS	8	Units:	mg/Kg	Ana	alysis Date:	31-May-2017 18:04
Client ID:		Run	ID: ICPMS	604_295528	SeqNo: 4	107310	PrepDate:	30-May-2017 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref RPD Value %RPD Limit Qual
Antimony		5.445	0.459	9.183	0.1033	58.2	75 - 125	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

QC BATCH REPORT

WorkOrder:

HS17051351

Batch ID: 1166	564	<u>ln</u>	strument:	ICPMS04	######################################	Metho	od: SW602	0			Mark
MSD	Sample ID:	HS17051306-07MSE)	Units:	mg/Kg	Ana	alysis Date:	30-May-2017	20:01		
Client ID:		Rur	ID: ICPM	504_295462	SeqNo: 4	104981	PrepDate:	30-May-2017	DF: 1	ı	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD L	PD imit	Qual
Aluminum		12280	0.924	9.235	9284	32500	75 - 125	11770	4.26	20	SEO
Arsenic		11.19	0.462	9,235	2.523	93.9	75 - 125	10.84	3.23	20	
Barium		80.34	0.462	9.235	68.16	132	75 - 125	77.17	4.03	20	so
Beryllium		10.64	0.462	9.235	0.5638	109	75 - 125	10.34	2.85	20	
Cadmium		8.839	0.462	9.235	0.1071	94.6	75 - 125	8.575	3.03	20	
Calcium		44450	46.2	923.5	43280	126	75 - 125	43820	1.43	20	SEO
Chromium		21.63	0.462	9.235	10.82	117	75 - 125	21.23	1.88	20	
Cobalt		12.85	0.462	9.235	4.194	93.7	75 - 125	12.58	2.07	20	
Copper		15.29	0.185	9.235	6.546	94.7	75 - 125	14.68	4.07	20	
Iron	3 + 030	11960	46.2	923.5	9844	229	75 - 125	11540	3.59	20	SO
Lead		14.42	0.462	9.235	5.609	95.4	75 - 125	13.93	3.4	20	
Magnesium	1	4636	46.2	923.5	3483	125	75 - 125	4579	1.24	20	
Manganese		261.1	0.462	9.235	243.4	191	75 - 125	254.8	2.43	20	SEO
Molybdenum		9,375	0.462	9.235	0.287	98.4	75 - 125	9.025	3.8	20	
Nickel		17.92	0.462	9.235	8.853	98.1	75 - 125	17.56	2.01	20	
Potassium		3469	46.2	923.5	1963	163	75 - 125	3384	2.48	20	S
Selenium		9.409	0.462	9.235	0.9444	91,7	75 - 125	8.889	5.69	20	
Silver		8.732	0.462	9.235	0.03564	94.2	75 - 125	8.478	2.95	20	
Sodium		948.2	46.2	923.5	40.19	98.3	75 - 125	924.3	2.55	20	
Strontium		45.73	0.462	9.235	35.81	107	75 - 125	44.69	2.29	20	
Thallium		8.721	0.462	9.235	0.1411	92.9	75 - 125	8.364	4.18	20	
Tin		9.236	0.462	9.235	0.6286	93.2	75 - 125	8.996	2.63	20	
Titanium		232.6	0.462	18.47	150.1	447	75 - 125	222.2	4.59	20	SEO
Vanadium		30.76	0.462	9.235	18.57	132	75 - 125	29.66	3.65	20	S
Zinc		33.8	0.462	9.235	22.45	123	75 - 125	33.23	1.73	20	
MSD	Sample ID:	HS17051306-07MSD)	Units:	mg/Kg	Ana	ılysis Date:	31-May-2017	18:08		
Client ID:	Property (Property)		ID: ICPMS		SeqNo: 4		7.0	30-May-2017			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value		PD	Qual
Antimony		5.677	0.462	9.235	0.1033	60.3	75 - 125	5.445	4.17	20	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

WorkOrder:

HS17051351

QC BATCH REPORT

Batch ID:	116664	In	strument:	ICPMS04		Metho	od: SW602	0	na Je s a la Alexandra de la A
PDS	Sample ID:	HS17051306-07PDS		Units:	mg/Kg	Ana	alysis Date:	31-May-201	7 15:11
Client ID:		Rur	ID: ICPM	S04_295528	SeqNo: 4	106242	PrepDate:	30-May-201	7 DF: 100
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Aluminum		9994	91.4	913.9	8020	216	75 - 125		S
Calcium		127700	4570	91390	37800	98.3	75 - 125		
Manganese		1128	45.7	913.9	217.4	99.7	75 - 125		
PDS	Sample ID:	HS17051306-07PDS		Units:	mg/Kg	Ana	alysis Date:	31-May-2017	7 18:13
Client ID:		Rur	ID: ICPM	S04_295528	SeqNo: 4	107312	PrepDate:	30-May-2017	7 DF: 1
Analyte	,	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Antimony		8.698	0.457	9.139	0.1033	94.0	75 - 125		
Magnesium		4064	45.7	913.9	3175	97.3	75 - 125		
Strontium		42.47	0.457	9.139	32.64	108	75 - 125		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

MESSERVICE | ARSID PARTIES

Client:

Texas Commission on Environmental Quality

Project: WorkOrder: TCEQ Region 14 COC 51689

HS17051351

QC BATCH REPORT

Batch	ID:	116664

Instrument:

ICPMS04

Method: SW6020

Client ID: Analyte Arsenic	,	R	ID 1000							
			un ID: ICPN	/IS04_295462	SeqNo: 4	104982	PrepDate:	30-May-2017	DF:	1
Arsenic		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value		RPD Limit Qua
		10.76	0.457	9.139	2.523	90.1	75 - 125			
Barium		72.69	0.457	9.139	68.16	49.6	75 - 125			S
Beryllium		8.952	0.457	9.139	0.5638	91.8	75 - 125	_		
Cadmium		8.334	0.457	9.139	0.1071	90.0	75 - 125			
Chromium		18.66	0.457	9.139	10.82	85.8	75 - 125			
Cobalt		12.13	0.457	9.139	4.194	86.9	75 - 125			
Copper		14.14	0.183	9.139	6.546	83.1	75 - 125			
Iron		10490	45.7	913.9	9844	70.6	75 - 125			S
Lead		13.64	0.457	9.139	5.609	87.9	75 - 125			
Molybdenum		9.139	0.457	9.139	0.287	96.9	75 - 125			
Nickel		16.51	0.457	9.139	8.853	83.8	75 - 125			
Potassium		2736	45.7	913.9	1963	84.6	75 - 125			
Selenium		9.496	0.457	9.139	0.9444	93.6	75 - 125			
Silver		8.362	0.457	9.139	0.03564	91.1	75 - 125			
Sodium		891.7	45.7	913.9	40.19	93.2	75 - 125			
Thallium		8.268	0.457	9.139	0.1411	88.9	75 - 125			
Tin		9.013	0.457	9.139	0.6286	91.7	75 - 125			
Titanium		160	0.457	18.28	150.1	54.6	75 - 125			5
Vanadium		26.61	0.457	9.139	18.57	88.0	75 - 125			
Zinc		29.92	0.457	9.139	22.45	81.7	75 - 125			
SD	Sample ID:	HS17051306-07S	D	Units:	mg/Kg	Ana	alysis Date:	31-May-2017	15:07	
Client ID:		F	Run ID: ICPN	MS04_295528	SeqNo: 4	106218	PrepDate:	30-May-2017	DF	: 500
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qua
Aluminum		7779	457					8020		3 10
Calcium		36720	22800					37800	2.8	7 10
Manganese		205.3	228					217.4		0 10
SD	Sample ID:	HS17051306-07S	D	Units:	mg/Kg	Ana	alysis Date:	31-May-2017	17:59	
Client ID:		F	Run ID: ICPI	VIS04_295528	SeqNo: 4	1107309	PrepDate:	30-May-2017	DF	: 5
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qua

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

WorkOrder:

HS17051351

QC BATCH REPORT

Batch ID: 1166	664	i	nstrument:	ICPMS04		Metho	od: SW602	0		
SD	Sample ID:	HS17051306-07SD		Units:	mg/Kg	Ana	alysis Date:	30-May-2017 1	9:52	
Client ID:		Ru	in ID: ICPMS	S04_295462	SeqNo:	4104979	PrepDate:	30-May-2017	DF:	5
Analyte		Result	PQL	SPK Val	SPK Ref Value	f %REC	Control Limit			%D imit Qual
Arsenic		2.621	2.28					2.523	3.91	10
Barium		65.44	2.28					68.16	4	10
Beryllium		0.5605	2.28					0.5638	0	10
Cadmium		< 2.28	2.28					0.1071	0	10
Chromium		11.25	2.28					10.82	4	10
Cobalt		4.385	2.28					4.194	4.56	10
Copper		6.835	0.914					6.546	4.42	10
Iron		10410	228			-		9844	5.76	10
Lead		5.693	2.28					5.609	1.51	10
Magnesium		3530	228					3483	1.34	10
Molybdenum		< 2.28	2.28					0.287	0	10
Nickel		9.275	2.28					8.853	4.76	10
Potassium		1974	228					1963	0.564	10
Selenium		< 2.28	2.28					0.9444	0	10
Silver		< 2.28	2.28					0.03564	0	10
Sodium		< 228	228					40.19	0	10
Strontium		37.13	2.28					35.81	3.69	10
Thallium		< 2.28	2.28					0.1411	0	10
Tin		0.6154	2.28					0.6286	0	10
Titanium		148.3	2.28					150.1	1.16	10
Vanadium		19.2	2.28					18.57	3.37	10
Zinc		24.14	2.28				7	22.45	7.52	10
The following samp	oles were analyze		51351-01 51351-05 51351-09	HS1705135 HS1705135 HS1705135	1-06	HS170513 HS170513		HS17051351-04 HS17051351-08		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Texas Commission on Environmental Quality

Project:

TCEQ Region 14 COC 51689

WorkOrder:

HS17051351

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL
Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program
Unit Reported	Description
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kansas	E-10352 2016-2017	31-Jul-2017
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Carolina	624-2017	31-Dec-2017
Oklahoma	2016-122	31-Aug-2017
Texas	T104704231-17-18	30-Apr-2018

PAGET AND ETTING I MIGHT PERYING

Sample Receipt Checklist

Client Name:

TCEQ Corpus Christi

Work Order:

HS17051351

Date/Time Received:

25-May-2017 08:30

Received by:

NDR

Checklist completed by:	Cesar A. Lira eSignature	25-May-201	Reviewed by:	Dane J. Waca. eSignature	sey	29-May-2017 Date
Matrices: Solid	l		Carrier name:	Greyhound		
Chain of custody agrees w Samples in proper container Sample containers intact? TX1005 solids received in Sufficient sample volume f All samples received within	ipping container/cooler? mple bottles? hen relinquished and received ith sample labels? er/bottle? hermetically sealed vials? or indicated test? holding time?	?	Yes V	No	Not Present Not Present Not Present	
Container/Temp Blank tem Temperature(s)/Thermome			Yes 4.0c/3.7c uc/c	140		IR11
Cooler(s)/Kit(s):			Lg. Blue			
Date/Time sample(s) sent	to storage:		5/25/2017 1955			
Water - VOA vials have ze Water - pH acceptable upo pH adjusted? pH adjusted by:			Yes Yes	No 🗌	VOA vials subr N/A 🗸 N/A 🗸	mitted [V]
Login Notes:						
Client Contacted:	Dat	e Contacted:		Person Contac	ted:	
Contacted By:	Reg	garding:				
Comments:						
Corrective Action:						

HS17051351

51689	Permit #:	1-825-300		REMARKS	thold TCLP Pending		exas	TO	nissic EQ R	on on egion 1	14 CO	C 5168	89	Quality		2		L Glor	N WARTI CEC-0-3
ord	nortial)	Sampler telephone number: $3(\rho - \rho)55 - 3(\rho)$	Sampler: (please print clearly)	s Reques	total partals		1	1/emerous	V E MRICONY	V E MEYCUTY	1		// Chriscol	MPRO IN	For Laboratony Lise:	Received on ire.			Seals Intact:
Chain of Custody Record	is shaded area if the facility information must be confidential)	Program:	Laber	Grab/ Matrix CL2 pH Cond. Comp. L,S,M,O,T	la 5 -	G S -	5 8	F S F	9 5	(9 S	(a) S +	(a) S +	(9 5	(a) S	by by:	ed by:	3	by:	
Chain	VOESTAIPINA fill in this shaded area il	Ohristi	(signature)	Date Time # of Bottles	5/24/19 1050 1	5 5(24/17/1055	1 5011 6/11/2/5/25/2013 co-	1 0211 FIJHUS 9	15 STUTT 1130 1	K 514/19/135 1) Shill sills (1 0511 H/h2/58	155 185	1 0001 AIV512	5/14/17 554 Received by	Time	8	Date Time Received by:	Shipper Number:
E COMMISSION ON ENVIRONMENTAL QUALITY		7	ID: Gřtnhogi	Lab ID Sample Number ID	101 - 101 -	23/1/5/ 20-	18me+1417 -03 JCD 07 04 (107)	H61 -04- FINPS	105 - HBI Find 5(4)	1161 CACK	-141100-70-	4//2/5/39/10/21.	1910 - 19	-10-Fines	Relinquished by: KNOLIA BEINDAMPN	Relinquished by:	Relinquished 65y:	Relinquished by:	Shipper name:

ENTOURING SENTENCTION

CCTECCE PAGE 1511, TX CORPUS CHRISTI, TX CORPUS CHRISTI CHRISTICAL CHR	C* . 10 T
265: 1 17X	SE DELLVERY
Con Brown	NA NA
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ALS Environmental 3352 128th Avenue Holland-Michigan 49424 1616 399 6070 161. +1 616 399 6185

CUSTODY SEAL

(of Bime)



ATTACHMENT 13 May 24, 2017 Heavy Metal Sampling Photographs

Total Pages: 11

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017



Subject: Collection of Lab Sample ID HS17051351-01 (01-Remet Pile)

Location: North side of Voestalpine's property;

northwest side of pile Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 1



Subject: Location of Lab Sample ID HS17051351-01 (01-Remet Pile)

Location: North side of Voestalpine's property;

northwest side of pile Direction: Facing northeast

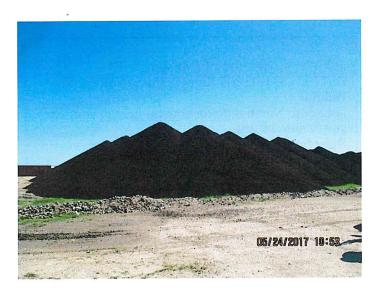
City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 2



Subject: 01-Remet Pile

Location: North side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Lab Sample ID HS17051351-02 (02-HBI Chips & Fines)

Location: North side of Voestalpine's property;

northwest side of pile Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 4



Subject: 02-HBI Chips & Fines

Location: North side of Voestalpine's property

Direction: Facing northeast

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 5



Subject: Collection of Lab Sample ID

HS17051351-03 (03-Remet/Fines/Iron Oxide

Pellets)

Location: North side of Voestalpine's property;

south side of pile

Direction: Facing northeast

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Lab Sample ID

HS17051351-03 (03-Remet/Fines/Iron Oxide

Pellets)

Location: North side of Voestalpine's property;

south side of pile

Direction: Facing northeast

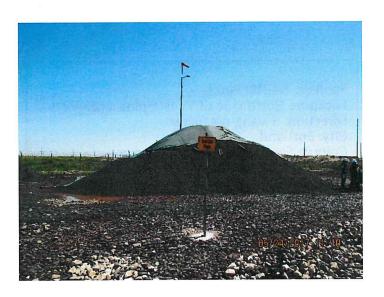
City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 7



Subject: 03-Remet/Fines/Iron Oxide Pellets Location: North side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 8



Subject: Collection of Lab Sample ID

HS17051351-04 (04-HBI Fines)

Location: North side of Voestalpine's property;

south side of pile

Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Lab Sample ID HS17051351-04 (04-HBI Fines)

Location: North side of Voestalpine's property;

south side of pile

Direction: Facing northeast

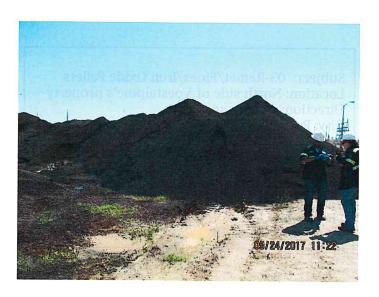
City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 10



Subject: 04-HBI Fines

Location: North side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 11



Subject: Collection of Lab Sample ID HS17051351-05 (05-Remet & HBI Fines)

Location: South side of Voestalpine's property;

north side of pile

Direction: Facing southeast

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Lab Sample ID HS17051351-05 (05-Remet & HBI Fines)

Location: South side of Voestalpine's property;

north side of pile

Direction: Facing southeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 13



Subject: 05-Remet & HBI Fines

Location: North side of Voestalpine's property

Direction: Facing southeast

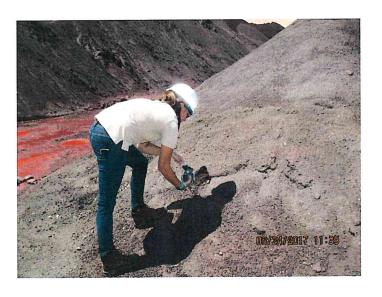
City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 14



Subject: Collection of Lab Sample ID HS17051351-06 (06-Iron Oxide Fines)

Location: South side of Voestalpine's property;

northeast side of pile

Direction: Facing southwest

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEO Corpus Christi Regional Office



Subject: Location of Lab Sample ID HS17051351-06 (06-Iron Oxide Fines)

Location: South side of Voestalpine's property;

northeast side of pile

Direction: Facing southwest

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 16



Subject: 06-Iron Oxide Fines

Location: South side of Voestalpine's property

Direction: Facing southwest

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 17



Subject: Collection of Lab Sample ID

HS17051351-07 (07-Coated Iron Oxide Pellets) Location: South side of Voestalpine's property;

northwest side of pile

Direction: Facing northeast

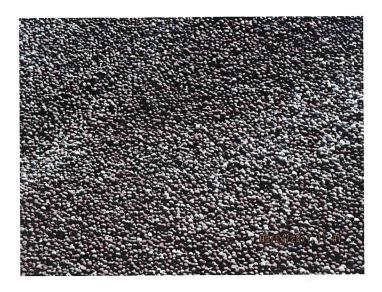
City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Location of Lab Sample ID

HS17051351-07 (07-Coated Iron Oxide Pellets) Location: South side of Voestalpine's property;

northwest side of pile Direction: Facing northeast

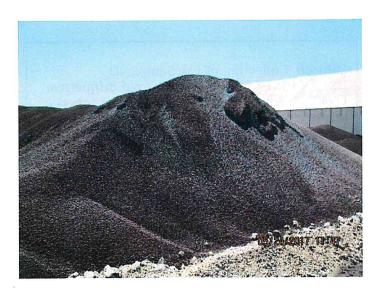
City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 19



Subject: 07-Coated Iron Oxide Pellets

Location: South side of Voestalpine's property

Direction: Facing southeast

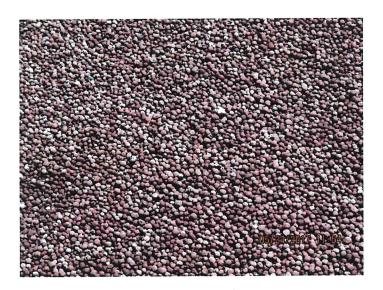
City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 20



Subject: Location of Lab Sample ID HS17051351-08 (08-Iron Oxide Pellets)

Location: South side of Voestalpine's property;

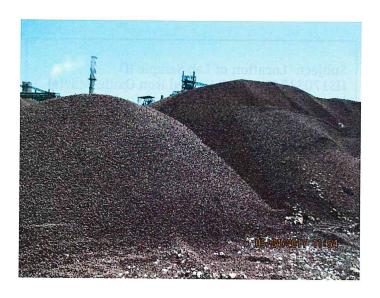
northwest side of pile Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: 08-Iron Oxide Pellets

Location: South side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 22



Subject: Collection of Lab Sample ID

HS17051351-09 (09-HBI Fines Cold Briquettes) Location: South side of Voestalpine's property;

northwest side of pile Direction: Facing southeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 23



Subject: Location of Lab Sample ID

HS17051351-09 (09-HBI Fines Cold Briquettes) Location: South side of Voestalpine's property;

northwest side of pile

Direction: Facing southeast

City: Portland

County: San Patricio

Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: 09-HBI Fines Cold Briquettes

Location: South side of Voestalpine's property

Direction: Facing southeast

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 25



Subject: Collection of Lab Sample ID

HS17051351-10 (10-HBI Fines)

Location: South side of Voestalpine's property;

southeast side of pile

Direction: Facing southwest

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 26



Subject: Location of Lab Sample ID HS17051351-10 (10-HBI Fines)

Location: South side of Voestalpine's property;

southeast side of pile

Direction: Facing southwest

City: Portland County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: 10-HBI Fines

Location: South side of Voestalpine's property

Direction: Facing southwest

City: Portland

County: San Patricio Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 28



Subject: 10-HBI Fines

Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland

County: San Patricio

Date: May 24, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office





ATTACHMENT 14 Laboratory Analysis Request No. 1706003

Total Pages: 4

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1706003

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K PC	Heer	1 620	' Hrar	112 11/	arrin	97
1100					ICII LIIII	

Region: T14

Date Received: 6/5/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpine	Portland	San Patricio	Manufacturing
Sample(s) Received			
Field ID Number: 20170525-01 La	boratory Sample Number: 17	06003-001 Sam	pled by: Thomas Haney
Sampling Site: Complainant's Property			11:33:00 Valid Sample: Yes
Comments: Tape lift from siding on front outer an East facing who	wall (painted dark yellow) lo	cated on SE side of res	sidence.5H
	boratory Sample Number: 17	06003-002 Sam	pled by: Thomas Haney
Sampling Site: Complainant's Property			11:37:00 Valid Sample: Ye
Comments: Tape lift from an outside window southeast facing	lass located on the SE (front)	side of the residence.	at
Requested Laboratory Procedure(s):	1 WINDOW 5111.		
Analysis: AP007MIC	· · · · · · · · · · · · · · · · · · ·		
Environmental Sample Characterization using P	olarized Light Microscopy		
Analysis: AP008MIC			
Sample Characterization using Scanning Electro	n Microscope with an Energy	Dispersive X-Ray Mic	croanalysis Spectrometer

Sample Characterization using Scanning Electron Microscope with an Energy Dispersive X-Ray Microanalysis Spectrometer

Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Laboratory Manager:

Date: <u>6/17/17</u>

Laboratory Analysis Results

Request Number: 1706003

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1706003-001

Analysis began: 6/8/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/9/2017

Sample 20170525-01 was lightly loaded. Metal particles accounted for less than 5% of the particle coverage. There were only three metal particles. Metal particles ranged in color from black to reddish and ranged in size from 30-50 µm. The sample contained between 71 and 80% plant material and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included fungal spores, paint chips, and plant fibers.

Sample Number: 1706003-001

Analysis began: 6/8/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/9/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, silicon, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen, and iron. This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as salt and feldspar.

Sample Number: 1706003-002

Analysis began: 6/8/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/9/2017

Sample 20170525-02 was lightly loaded. Metal particles accounted for between 21 and 30% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 1 -100 μm. The sample contained between 51 and 60% common clays and minerals and between 5 and 20% plant material. Other particles present in quantities less than 5% included fungal spores and plant fibers.

Sample Number: 1706003-002

Analysis began: 6/8/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/9/2017

EDS analysis of a metal particle showed elements carbon, oxygen, magnesium, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as quartz and feldspar.

TCEQ laboratory customer support may be reached at Frank. Martinez@tceq.texas.gov

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> Attachment 14 Inv. No. 1415945 Page 2 of 4

Laboratory Analysis Results

Request Number: 1706003 Analysis Code: AP008MIC

Qualifier Notes:

- ND not detected
- NQ concentration can not be quantified due to possible interferences or coelutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
- SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
- INV Invalid.
- J Reported concentration is below SDL.
- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.
- E Reported concentration exceeds the upper limit of instrument calibration.
- M Result modified from previous result.
- T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control.
- H Not all associated hold time specifications were met. Data may be biased,
- C Sample received with a missing or broken custody seal.
- R Sample received with a missing or incomplete chain of custody.
- I Sample received without a legible unique identifier.
- G Sample received in an improper container.
- U Sample received with insufficient sample volume.
- W Sample recevied with insufficient preservation.

TCEQ laboratory customer support may be reached at Frank.Martinez@tceq.texas.gov

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Susan Hoelscher

From:

Thomas Haney

Sent:

Tuesday, June 13, 2017 8:57 AM

To:

Susan Hoelscher

Subject:

FW: Request Report 1706003

Attachments:

1706003.pdf

From: Hattie Waites

Sent: Monday, June 12, 2017 16:13

To: Thomas Haney <Thomas.Haney@tceq.texas.gov>
Cc: Frank Martinez <Frank.Martinez@Tceq.Texas.Gov>

Subject: Request Report 1706003

Attached is your PDF file for Request Report 1706003.

You will not receive a hard copy.



ATTACHMENT 15 Laboratory Analysis Request No. 1706004

Total Pages: 4

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1706004

Request Lead:Frank Martinez

Region: T14

Date Received: 6/5/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpine	Portland	San Patricio	Manufacturing
Sample(s) Received			
Field ID Number: 1 Sampling.Site: Complainant's Property Comments: Tape lift from car floor board		Sampled: 05/30/17	pled by: Susan Hoelscher 16:15:00 Valid Sample: Yes 5)
Field ID Number: 2 Sampling Site: Complainant's Property Comments: Tape lift from an outdoor gar (Sample 1 above). (CMP 115	age light bulb located on the south s	Sampled: 05/30/17	pled by: Susan Hoelscher 16:17:00 Valid Sample: Yes n front (north) of the detailed c
Requested Laboratory Procedure(s)	: ,		
Analysis: AP007MIC			

Environmental Sample Characterization using Polarized Light Microscopy

Analysis: AP008MIC

Sample Characterization using Scanning Electron Microscope with an Energy Dispersive X-Ray Microanalysis Spectrometer Please note that this analytical technique is not capable of measuring all compounds which might have adverse health effects. For questions on the analytical procedures please contact the laboratory manager at (512) 239-1716. For an update on the health effects evaluation of these data, please contact the Toxicology Division at (512) 239-1795.

Laboratory Manager:

Date: 6/12/17

Laboratory Analysis Results Request Number: 1706004

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1706004-001

Analysis began: 6/9/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/12/2017

Sample one was moderately loaded. Metal particles accounted for less than 5% of the particle coverage. Metal particles ranged in color from black to reddish and ranged in size from 5-100 μm. Paint chips accounted for over 80% of the particle coverage. The sample contained between 5 and 20% hair. Other particles present in quantities less than 5% included common clays and minerals and paper fibers.

Sample Number: 1706004-001

Analysis began: 6/9/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/12/2017

Energy dispersive spectroscopy (EDS) analysis of a metal particle showed elements carbon, oxygen, calcium, and iron. The primary peaks in the x-ray spectrum were carbon and iron.

This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of a paint chip particle showed elements carbon, oxygen, sodium, magnesium, aluminum, silicon, sulfur, chlorine, potassium, calcium, and iron. The primary peaks in the x-ray spectrum were carbon, oxygen, silicon, chlorine, and calcium.

EDS analysis of several particles confirmed the presence of common clays and minerals such as limestone.

Sample Number: 1706004-002

Analysis began: 6/9/2017

Analyst: Jeffrey Ketteman

SOP: AP007MIC Analysis completed: 6/12/2017

Sample two was heavily loaded. The sample contained between 5 and 20% metal particles. Metal particles ranged in color from black to reddish and ranged in size from 1-80 µm. The sample contained between 5 and 20% common clays and minerals and between 61 and 70% fungal spores. Other particles present in quantities less than 5% included paint overspray, paper fibers, plant trichomes, and pollen.

Sample Number: 1706004-002

Analysis began: 6/9/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 6/12/2017

EDS analysis of a metal particle showed elements carbon, oxygen, sodium, aluminum, silicon, chlorine, calcium, and iron. The primary peaks in the x-ray spectrum were oxygen and iron. This x-ray spectrum of a metal particle is consistent with the reference samples submitted with request number 1705011.

EDS analysis of several particles confirmed the presence of common clays and minerals such as salt (sodium chloride) and quartz.

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> Attachment 15 Inv. No. 1415945 Page 2 of 4

Laboratory Analysis Results

Request Number: 1706004

Analysis Code: AP008MIC

Qualifier Notes:

- ND not detected
- NQ concentration can not be quantified due to possible interferences or coelutions.
- SDL Sample Detection Limit (Limit of Detection adjusted for dilutions).
- SQL Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).
- INV Invalid.
- J Reported concentration is below SDL.
- L Reported concentration is at or above the SDL and is below the lower limit of quantitation.
- E Reported concentration exceeds the upper limit of instrument calibration.
- M Result modified from previous result.
- T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.
- F Established acceptance criteria was not met due to factors outside the laboratory's control.
- H Not all associated hold time specifications were met. Data may be biased.
- C Sample received with a missing or broken custody seal.
- R Sample received with a missing or incomplete chain of custody.
- I Sample received without a legible unique identifier.
- G Sample received in an improper container.
- U Sample received with insufficient sample volume.
- W Sample recevied with insufficient preservation.

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Susan Hoelscher

From:

Hattie Waites

Sent:

Monday, June 12, 2017 4:12 PM

To: Cc: Susan Hoelscher

Subject:

Frank Martinez Request Report 1706004

Attachments:

1706004.pdf

Attached is your PDF file for Request Report 1706004.

You will not receive a hard copy.



ATTACHMENT 16 Laboratory Analysis Request No. 1707002

Total Pages: 4

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1707002

Rea	mest	Lead.	Frank	Martinez	
1100	uost	Loud.	LIGHT	TATCH HITTOS	

Region: T14

Date Received: 7/5/2017

Facility(ies) Sampled	City	County	Facility Type
La Quinta Plant Voestalpine	Portland	San Patricio	Manufacturing
Sample(s) Received			
Sampling Site: Complainant's Property Comments: 30 second grab sample taken in ambie south/southeast.		e Sampled: 06/23/17	pled by: Susan Hoelscher 10:12:00 Valid Sample: Ye property facing
Requested Laboratory Procedure(s): Analysis: AP007MIC			
Environmental Sample Characterization using Pola	rized Light Microscopy		b
Analysis: AP008MIC Sample Characterization using Scanning Electron N	Microscope with an Energy	Dispersive X-Ray Mic	roanalysis Spectrometer
Please note that this analytical technique is adverse health effects. For questions on the	e analytical procedure	s please contact the	laboratory manager at
(512) 239-1716. For an update on the heal Division at (512) 239-1795. Analyst: Jeffrey Ketteman		Date:	· · ·

Laboratory Analysis Results Request Number: 1707002

Analysis Code: AP007MIC & AP008MIC

Sample Number: 1707002-001

Analysis began: 7/7/2017

Analyst: Jeffrey Ketteman

Analysis completed: 7/7/2017 SOP: AP007MIC

Sample A was lightly loaded. The sample contained between 31 and 40% metal particles. The metal particles range in size from 15 to 40 microns. The sample contained between 31 and 40% plant fibers and between 5 and 20% common clays and minerals. Other particles present in quantities less than 5% included fungal spores. There were two metal particles and one plant fiber that made for the majority of the particles on the subsample.

Sample Number: 1707002-001

Analysis began: 7/7/2017

Analyst: Jeffrey Ketteman

SOP: AP008MIC Analysis completed: 7/7/2017

Energy dispersive spectroscopy (EDS) analysis of a quartz particle showed elements carbon, oxygen, and silicon. The primary peaks in the x-ray spectrum were oxygen and silicon.

There was not enough sample to confirm, by EDS, if the metal particles were consistent with reference samples in lab request number 1705011.

TCEQ laboratory customer support may be reached at Frank. Martinez@tceq.texas.gov

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> Attachment 16 Inv. No. 1415945 Page 2_ of 4_

Laboratory Analysis Results

Request Number: 1707002

Analysis Code: AP008MIC

Qualifier Notes:

ND - not detected

NQ - concentration can not be quantified due to possible interferences or coclutions.

SDL - Sample Detection Limit (Limit of Detection adjusted for dilutions).

SQL - Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).

INV - Invalid.

J - Reported concentration is below SDL.

L - Reported concentration is at or above the SDL and is below the lower limit of quantitation.

E - Reported concentration exceeds the upper limit of instrument calibration.

M - Result modified from previous result.

T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.

F - Established acceptance criteria was not met due to factors outside the laboratory's control.

H - Not all associated hold time specifications were met. Data may be biased.

C - Sample received with a missing or broken custody seal.

R - Sample received with a missing or incomplete chain of custody.

I - Sample received without a legible unique identifier.

G - Sample received in an improper container.

U - Sample received with insufficient sample volume.

W - Sample recevied with insufficient preservation.

TCEQ laboratory customer support may be reached at Frank.Martinez@tceq.texas.gov

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Susan Hoelscher

From:

Hattie Waites

Sent:

Monday, July 10, 2017 3:32 PM

To:

Susan Hoelscher

Cc:

Frank Martinez

Subject:

Request Report 1707002

Attachments:

1707002.pdf

Attached is your PDF file for Request Report 1707002.

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ATTACHMENT 17 Gorilla Snot Safety Data Sheet and Dust Boss Spec Sheet

Total Pages: 14

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017



Product Data Dust control

CHEMTREAT DT9087

GENERAL DESCRIPTION

CHEMTREAT DT9087 is a copolymer emulsion designed to be an eco-safe, biodegradable, liquid concentrate used to provide erosion control and dust suppression. CHEMITREAT DT9087 will not migrate away from treated areas and will not seep into the groundwater. It will not wash away in the rain and it does not re-emulsify with water. CHEMTREAT DT9087 is comprised of long, nanoparticle molecular structures that link and cross-link together to form strong bonds between particulates, soils and applications Increased aggregates. CHEMITREAT DT9087 are highly effective for roads and other traffic areas. The product is designed to penetrate into the ground creating a strong and resilient, yet flexible, surface wear course that can withstand the intense abuse of vehicle traffic and environmental conditions.

GENERAL PROPERTIES

FormOpaque, white liquid
OdorMild
Viscosity<100 cps @ 20°C
pH~6.5
Specific Gravity1.039 @ 20°C
Density8.67 pounds/gallon
Freeze Point 32°F / 0°C

DOSAGIE AND FIERDING

CHEMTREAT DT9037 is designed to be easily applied topically to almost any soil or aggregate. A modest application will create a light surface crust that remains water permeable for air and water, yet perfect for controlling dust and suppressing PM10 and PM2.5 particulate matter to maintain air quality and visibility. CHEMTREAT DT9087 is typically applied topically to the surface at an initial rate of 0.5-20.0 percent solution covering between 10 to 800 ft2. Maintenance coats are normally applied at 30% of the initial application rate. For optimum performance, CHEMTREAT DT9087should be applied in accordance with the control parameters established by a ChemTreat representative for the specific CHEMTREAT DT9087 application. compatibilities with materials of construction are available upon request from a ChemTreat representative.

SAFETY PRECAUTIONS

For specific information on handling, safety and first aid, please review the product's Safety Data Sheet.

SHIPPING AND STORAGE

Do not freeze. Store above freeze point. If CHEMTREAT DT9087 freezes, then product is unusable. CHEMTREAT DT9087 is available in 275-gallon nonreturnable totes and bulk.

5/2017





SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name:

Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of SDS:

Date of SDS: Revision Date: Revision Number: ChemTreat DT9087 Dust Control ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579

May 15, 2017 May 15, 2017 17051501AN

Section 2. Hazard(s) Identification

Signal Word:

None

GHS Classification(s):

Non-Hazardous Substance

Hazard Statement(s):

Non-Hazardous Substance

Precautionary Statement(s):

No significant health risks are expected from exposures under

normal conditions of use.

Prevention:

None.

Response:

None.

Storage:

None.

Disposal:

None.

System of Classification Used:

Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Hazards Not Otherwise

Classified:

None.





Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Components not listed are either non hazardous or in concentration of	N/A	N/A
less than 1%		

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell. Inhalation:

Rinse cautiously with water for several minutes. Remove contact Eyes:

lenses, if present and easy to do. Continue rinsing. If eye

irritation persists, get medical advice/attention.

Call a poison center or doctor/physician if you feel unwell. Skin:

Rinse mouth. Call a poison center or doctor/physician if you feel Ingestion:

unwell.

Most Important Symptoms:

N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

Necessary:

N/A

Section 5. Fire Fighting Measures

Flammability of the Product:

Not flammable.

Suitable Extinguishing Media:

Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from

the Chemical:

None known.

Protective Equipment:

If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

17051501AN 05/15/17

Page 2 of 9

ChemTreat DT9087

Attachment 17 Page \leq of P





Section 6. Accidental Release Measures

Personal Precautions:

Wear a self-contained breathing apparatus and appropriate

Personal Protective Equipment (PPE).

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up:

Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements:

None.

Section 7. Handling and Storage

Handling:

Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage:

Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Do not freeze. Store above Freeze Point. If freezes, then product

is unusable.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits	
Components not listed are either non hazardous or in	N/E	N/E	ĺ
concentration of less than 1%			

Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.

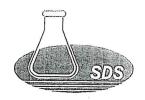
17051501AN 05/15/17

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ChemTreat DT9087

Attachment 17 Inv. No. 1415945 Page ____ of ____





Personal Protection

Eyes:

Safety glasses are recommended if risk of eye contact.

Skin:

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

Respiratory:

None needed under normal conditions of use.

Liquid, White, Opaque

6.5 @ 20°C, 100.0%

1.039 @ 20°C

Section 9. Physical and Chemical Properties

Physical State and Appearance:

Specific Gravity:

pH:

Freezing Point: Flash Point:

Odor:

Melting Point:

Initial Boiling Point and Boiling Range:

Solubility in Water: Evaporation Rate: Vapor Density:

Molecular Weight: Viscosity:

Flammability (solid, gas): Flammable Limits:

Autoignition Temperature:

Density:

Vapor Pressure: % VOC:

Odor Threshold

n-octanol Partition Coefficient Decomposition Temperature N/D >212°F Complete N/D N/D N/D

32°F

N/A

Mild

N/D N/D N/A

N/D 8.67 LB/GA

1/D

N/D N/D

N/D N/D N/D

Section 10. Stability and Reactivity

Chemical Stability:

Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers.

Hazardous Decomposition

Products:

None known.

17051501AN 05/15/17

Page 4 of 9

ChemTreat DT9087

Attachment 17 Inv. No. 1415945 Page 5 of 4





Possibility of Hazardous

Reactions:

None known.

Reactivity:

N/D

Conditions To Avoid:

N/D

Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
ChemTreat DT9087	N/D	N/D	N/D	N/D

Carcinogenicity Category

Component	Source	Code	Brief Description
Components not listed are either non hazardous or in	N/E	N/E	N/E
concentration of less than 1%			

Likely Routes of Exposure:

N/D

Symptoms

Inhalation:

N/D

Eye Contact:

N/D

Skin Contact:

N/D

Ingestion:

N/D

Skin Corrosion/Irritation:

N/D

Serious Eye Damage/Eye

N/D

Irritation:

N/D

Sensitization:

Germ Cell Mutagenicity:

N/D

Reproductive/Developmental

N/D

Toxicity:

17051501AN 05/15/17

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ChemTreat DT9087

Attachment 17 Inv. No. 1415945 Page __ of __ U





Specific Target Organ Toxicity

Single Exposure:

N/D

Repeated Exposure:

N/D

Aspiration Hazard:

N/D

Comments:

None.

Section 12. Ecological Information

Ecotoxicity

Species	Duration	Type of Effect	Test Results
N/D	N/D	N/D	N/D

Persistence and Biodegradability:

N/D

Bioaccumulative Potential:

N/D

Mobility In Soil:

N/D

Other Adverse Effects:

N/D

Comments:

Not tested.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT			N/A	N/A	N/A
221 494 17		WATER TREATMENT, LIQUID			

Note:

N/A

17051501AN 05/15/17

Page 6 of 9

ChemTreat DT9087

Attachment 17 Inv. No. 1415945 Page __7_ of __14





Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed. All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: No
Chronic Health Hazard: No

Other Sections

Component		Section 302 EHS	CERCLA RQ
Components not listed are either non hazardous or in	N/A.	N/A	N/A
concentration of less than 1%			apadon 77

Comments:

None.

State Regulations

California Proposition 65:

None known.

Special Regulations

Component	States
Components not listed are either non hazardous or in	None.
concentration of less than 1%	





International Regulations

Canada

WHMIS Classification:

N/A

Controlled Product Regulations

N/A

(CPR):

Compliance Information

NSF:

N/A

Food Regulations:

N/A

KOSHER:

This product has not been evaluated for Kosher approval.

FIFRA:

N/A

Other:

None

Comments:

None.

Section 16. Other Information

HMIS Hazard Rating

Health:

Flammability:

Physical Hazard:

0

PPE:

0

Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists





Abbreviation	Definition	· 17
EHS	Environmental Health and Safety Dept	- ;
N/A	Not Applicable	
N/D	Not Determined	
N/E	Not Established	
OSHA	Occupational Health and Safety Dept	
PEL	Personal Exposure Limit	
STEL	Short Term Exposure Limit	
TLV	Threshold Limit Value	
TWA	Time Weight Average	
UNK	Unknown	

Prepared by:

Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date:

May 15, 2017

Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.







DUSTBOSS® 60

The DB-60 is capable of covering more than 125,000 square feet (11,613 square meters) with its powerful dust-trapping mist when equipped with optional user-definable oscillation (up to 359°).

The DB-60 is also available as a tower-mounted unit for applications requiring dust capture from above.

SPECIFICATIONS

GENERAL SPECIFICATIONS

- Throw: 200 feet (60 meters).
- Fan: 30,000 CFM (849.50 CMM) generated by 25 HP fan.
- Coverage with standard 0°-40° oscillation:21,000 square feet (1,950 square meters).
- Coverage with optional 359° user-definable oscillation: 125,000 square feet (11,613 square meters).
- Adjustable throw angle: 0°-50°.
- Nozzles: 30, brass (also available in stainless and nylon).
- Droplet size: of 50–200 microns.
- Premium efficiency direct-drive motor.

ELECTRICAL SPECIFICATIONS

- U.S.: 3 Phase / 25 HP fan / 480 Volt / 60 Hertz. Full load current: 46 amps. 60 Kw gen set is recommended.
- Other motor options available, including all international electrical motors.
- a 10 HP (7.5 Kw) high-pressure booster pump with no lift.
- Oscillator: 1/8 HP (0.10 Kw).
- 150 foot (45.72 meters) 8/4 type W electrical cord.
- Bare wired electrical cord (no male plug).
- NEMA 3R cabinet with control panel.

CAMES MANAGESTANDON

3-year/3,0000-hour warranty.

WATER REQUIREMENTS

- 10 PSI (0.69 BAR) constant pressure must be delivered to booster pump.
- Maximum inlet water pressure should not exceed 100 PSI (6.89 BAR) when operating the booster pump.
- Maximum PSI delivered by booster pump is 250 PSI (17.24 BAR).
- In-line 30 mesh (595 micron) filter system is included and should be used at all times.
- Contact us for recommendations if using non-potable water.
- Connection: 1-1/2" (38.10 mm) cam-and-groove quick disconnect female coupling for fire hose provided on machine.

MAINTENANCE

- If using potable water, nozzles need to be inspected once a year.
- Fan motor and high pressure pump should be greased every 10,000 hours.
- Turntable bearing should be greased on a regular maintenance schedule, or as needed.

MOISE

Between 86 and 100 decibels at 0 feet.

PERFORMANCE ADDITIVES

□ Full line of DustBoss surfactants, tackifying agents, or odor control agents can be used with optional dosing pump.

OPTIONS

- Unit is available with optional userdefinable oscillation to allow up to 359° of movement. Standard oscillation provides 0°-40° of movement.
- Available on frame with skid mount or on a tower. Standard unit comes on threewheeled carriage.
- Dosing pump can be added to unit for chemical applications.

DIMENSIONS

(standard carriage mount)

- 6.75 feet (81 inches or 2.06 meters) wide.
- 9.75 feet (117 inches or 2.97 meters) long.
- 7.17 feet (86 inches or 2.19 meters) tall.
- = 1,800 lbs. (816.50 kilograms).

ENGLISH UNITS				
Supplied Water Pressure, psi	40	60	80	100
Water Flow with Booster Pump, gpm	22.2	23.9	25.4	26.7
Water Flow, no Booster Pump, gpm	12	14.6	16.9	18.9
METRIC UNITS				
Supplied Water Pressure, bar	2.8	4.14	5.5	6.89
Water Flow with Booster Pump, Ipm	84	90.5	96.1	101.1
Water Flow, no Booster Pump, Ipm	45.4	55.3	64	71.5
		1½" Fir	e Hose Wat	er Supply

BOSSTEK

309.693.8600 | 1607 W. Chanute Road | Peoria, IL 61615 | BossTek.com







DUSTBOSS® 100

Engineered to fight dust on the largest and toughest of work sites, the DB-100 is the biggest DustBoss ever designed.

With its muscular 60 HP motor and user-definable 359° oscillation, the DB-100 has a throw of more than 100 meters, giving the machine an incredible coverage area of 280,000 square feet (31,000 square meters).

SPECIFICATIONS

GENERAL SPECIFICATIONS

- = Throw: 328 feet (100 meters).
- Coverage: 280,000 square feet (31,000 square meters) coverage.
- Custom user-definable oscillation up to 359° includes integrated turntable bearing that enables user to manually override oscillator and quickly reposition fan barrel.
- Adjustable throw angle: 0° to 50°.
- Nozzles: 30 brass (also available in stainless and nylon)
- □ Droplet size: 50-200 microns.
- □ Premium efficiency direct-drive motor.

ELECTRICAL SPECIFICATIONS

- U.S.: 3 Phase / 60 HP fan / 480 Volt / 60
 Hertz. Full load current: 91 amps. Start-up
 amps (in rush) = 360 amps. 150 Kw gen set
 is recommended.
- Other motor options available, including all international electrical motors.
- 10 HP (7.5 Kw) high-pressure booster pump with no lift.
- Oscillator: 1/8 HP (0.10 Kw).
- 150 foot (30.48 meters) 4/4 Type W Power Cord.
- Bare wired electrical cord (no male plug).
- ™ NEMA 3R cabinet with control panel.
- Soft start.

OUR WARRANTY

3-year/3,000-hour warranity

WATER REQUIREMENTS

- 10 PSI (0.69 BAR) constant pressure must be delivered to booster pump.
- Maximum inlet water pressure should not exceed 100 PSI (6.89 BAR) when operating the booster pump.
- Maximum PSI delivered by booster pump is 250 PSI (17.24 BAR).
- In-line 30 mesh (595 micron) filter system is included and should be used at all times.
- Contact us for recommendations if using non-potable water.
- Connection: 1-1/2" (38.10 mm) cam-andgroove quick disconnect female coupling for fire hose provided on machine.

MAINTENANCE

- If using potable water, nozzles need to be inspected once a year.
- Fan motor and high pressure pump should be greased every 10,000 hours.
- Turntable bearing should be greased on a regular maintenance schedule or as needed.

PERFORMANCE ADDITIVES

Full line of DustBoss surfactants, tackifying agents, or odor control agents can be used with optional dosing pump.

OPTIONS

- Available on a tower. Standard unit comes on skid mount.
- Dosing pump can be added to unit for chemical applications.

DIMENSIONS

(standard skid mount)

- 5.69 feet (68 inches or 1.73 meters) wide.
- 9.95 feet (119 inches or 2.99 meters) long.
- 7.75 feet (93 inches or 2.36 meters) tall.
- 3,200 lbs. (1451.50 kilograms).

ENGLISH UNITS				
Supplied Water Pressure, psi	40	60	80	100
Water Flow with Booster Pump, gpm	37.2	37.5	38.1	39
Water Flow, no Booster Pump, gpm	17.7	21.9	25.5	28.2
METRIC UNITS				
Supplied Water Pressure, bar	2.8	4.14	5.5	6.89
Water Flow with Booster Pump, Ipm	141	142	144.2	147.6
Water Flow, no Booster Pump, Ipm	67	82.9	96.5	106.7
		1½" Fi	re Hose Wat	er Supply



ATTACHMENT 18 July 13, 2017 Photographs

Total Pages: 7

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017



Subject: EPN 41-Remet

Location: North side of Voestalpine's property

Direction: Facing northeast

City: Portland County: San Patricio Date: July 13, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 1



Subject: EPN 42-HBI Chips/Fines

Location: North side of Voestalpine's property

Direction: Facing east

City: Portland County: San Patricio Date: July 13, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 2



Subject: EPN 51 (Sold)-HBI

Location: South side of Voestalpine's property

Direction: Facing east

City: Portland County: San Patricio Date: July 13, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: EPNs 52, 53, 54-HDRI Clusters, HBI Startup (Mix HBI Chips/Remet), HBI Warm up

(Mix HBI/DRI)

Location: South side of Voestalpine's property

Direction: Facing northeast

City: Portland

County: San Patricio Date: July 13, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 4



Subject: Dust Boss 60

Location: East side of Voestalpine's property

Direction: Facing southwest

City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 5



Subject: Dust Boss 60

Location: East side of Voestalpine's property

Direction: Facing southwest

City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: EPN 45-Iron Ore Pellets RH20

Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 7



Subject: EPN 46-Iron Ore Pellets LKAB BFP Location: South side of Voestalpine's property

Direction: Facing northeast

City: Portland

County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEO Corpus Christi Regional Office

Photo No. 8



Subject: EPN 46-Iron Ore Pellets LKAB BFP Location: South side of Voestalpine's property

Direction: Facing northeast

City: Portland

County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: EPN 46-Iron Ore Pellets LKAB BFP Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 10



Subject: EPN 62-Iron Ore Sludge

Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland County: San Patricio

Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 11



Subject: EPN 61-HBI Sludge

Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland

County: San Patricio

Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: EPN 59-RH20 Iron Ore Coated Pellets Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 13



Subject: EPN 60-RH20 Iron Ore Coated Pellets Location: South side of Voestalpine's property

Direction: Facing northwest

City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 14



Subject: EPNs 47 & 48-Iron Ore Fines

Location: South side of Voestalpine's property

Direction: Facing north

City: Portland

County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office



Subject: Dust Boss 60

Location: South side of Voestalpine's property

Direction: Facing northeast

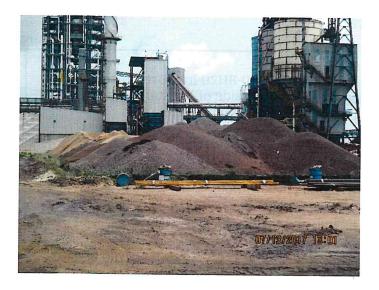
City: Portland County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 16



Subject: EPNs 56 (front) & 49 (back)-Iron Ore

Fines

Location: South side of Voestalpine's property

Direction: Facing northeast

City: Portland

County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office

Photo No. 17



Subject: EPNs 49 (front) & 56 (left)-Iron Ore

Fines

Location: South side of Voestalpine's property

Direction: Facing southwest

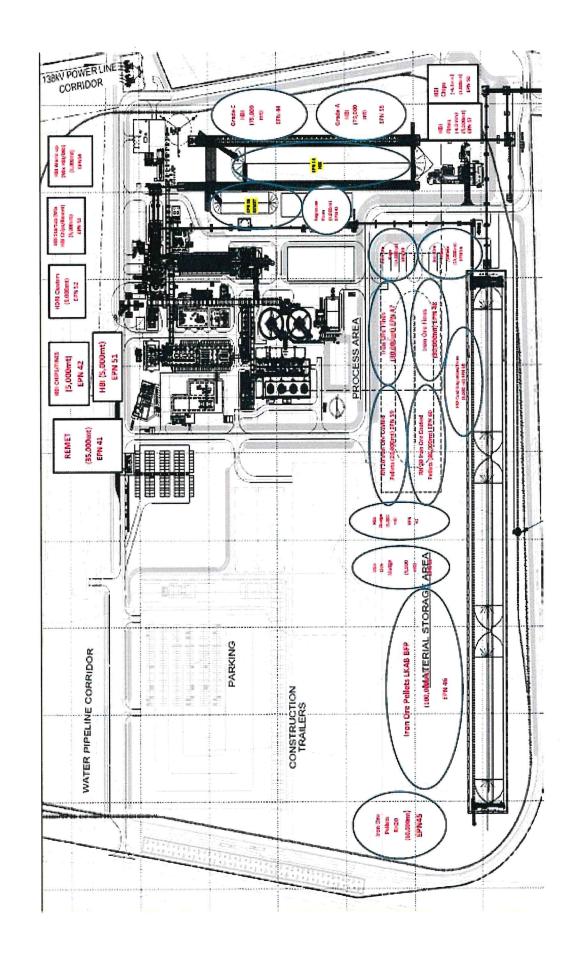
City: Portland

County: San Patricio Date: July 23, 2017

Photographer: Susan Hoelscher, Air Investigator

Digital File Location:

TCEQ Corpus Christi Regional Office





ATTACHMENT 19 Additional Information

Total Pages: 20

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

2800 Kay Bailey Hutchison Rd. Porlland, TX 78374, USA Office: +1 361 704 9000 FAX: +1 361 704 9090 www.voestalpine.com

Susan,

Please see below and attached for voestalpine Texas LLC's response to the May 31, 2017 TCEQ information request.

(1) Provide a brief timeline of activities at Voestalpine from start of operations to date including all MSS activities.

Approximate Timeline of Activity

July 20, 2016: Water Trucks in Service

September 28, 2016: Official Operational Date

January-February 2017: Hot Commissioning of FRP Plant February 17, 2017: Outside Storage of Iron Oxide Pellets April 13, 2017-May 17 2017: Temporary Screening of Material May 18, 2017: Began Tarp Installation on Storage Piles

June 5, 2017: Dust Boss Units in Operation

*See spreadsheet for Inbound/Outbound Vessels and MSS activities.

(2) Provide documentation of fugitive suppressant usage for the storage piles and associated operations from start of operations to date.

*Water trucks have been in service, at a minimum, since approximately July 20, 2016 (see invoices). Placement of Tarps began approximately May 18, 2017. Dust Boss units were put into service June 5, 2017. Chemical suppressants are currently being explored.

(3) Provide documentation of the quarterly visible emissions observations performed on fugitive sources since the start of operations (NSR Permit No. 108113 Special Condition 7). If visible emissions were observed during the quarterly observations, provide the Method 22 evaluation.

*See attached. No visible fugitive emissions have been observed leaving the facility property.

alam 6/14/2017

(4) According to NSR Permit No. 108113 Special Condition 17, iron ore pellets shall be stored in enclosed storage. During sampling conducted at Voestalpine on May 24, 2017, it was documented that some iron ore pellets are stored outside. Please provide documentation indicating when outside storage of iron ore pellets began.

*Outside storage of Iron Oxide Pellets began on February 17, 2017. The emission sources associated with the storage piles qualify for a PBR under the general requirements of 30 TAC 106.4 and the specific requirements of 30 TAC 106.261. (Registration No. 147082)

Shannon L. Parham

Environmental Manager

voestalpine

ONE STEP AHEAD.

Susan Hoelscher

From:

Sent:

Wednesday, June 14, 2017 2:49 PM

To:

Susan Hoelscher

Cc:

Subject:

RE: Information Request

Attachments:

Core Ahern Water Truck Invoices.pdf; Activity Timeline.xlsx; 05252017.pdf; Timeline of

Activity.pdf

Susan,

Please see attached in response to the May 31, 2017 additional information request.

Best Regards, Shannon

Shannon L. Parham Environmental Manager

voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, Texas 78374, United States M. +1 361 229 2865 T. +1 361 704 9000 F. +1 361 704 9090

www.voestalpine.com/texas

voestalpine - One step ahead.

Disclaimer

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From: Susan Hoelscher [mailto:Susan.Hoelscher@tceq.texas.gov]

Sent: Wednesday, May 31, 2017 3:25 PM

To: Parham Shannon

Cc

: Kelly Ruble; Sonny Lopez

Subject: Information Request

Good Afternoon Shannon,

I would like to request some additional information regarding operations at Voestalpine (see below).

- (1) Provide a brief timeline of activities at Voestalpine from start of operations to date including all MSS activities.
- (2) Provide documentation of fugitive suppressant usage for the storage piles and associated operations from start of operations to date.
- (3) Provide documentation of the quarterly visible emissions observations performed on fugitive sources since the start of operations (NSR Permit No. 108113 Special Condition 7). If visible emissions were observed during the quarterly observations, provide the Method 22 evaluation.

(4) According to NSR Permit No. 108113 Special Condition 17, iron ore pellets shall be stored in enclosed storage. During sampling conducted at Voestalpine on May 24, 2017, it was documented that some iron ore pellets are stored outside. Please provide documentation indicating when outside storage of iron ore pellets began.

Please provide this information to me by next week Wednesday, June 7, 2017, or sooner, if possible. Feel free to contact me or Kelly if you have any questions or concerns.

Thank you,

Susan Hoelscher
Air Investigator
TCEQ Region 14-Corpus Christi
(P) 361-825-3118 (F) 361-825-3101
susan.hoelscher@tceq.texas.gov

voestalpine Texas LLC Opacity Reading Program Issued: 3/10/2016 Revalidated:

VEF 005			Da	ily Inspection She	et		
Day Date:	Mon	Tue	Wed	Thur 5/25/17	Fri	Sat	Sun
				Equipment			anatolar etak pila
BSG Dust Collection Scrubber Stack	, a j nej me		***************************************	. 1 1 2			
Briquetter Dedusting							
HBI Cooling Conveyor				22.			
Hot Pressure Relief Vent		1					

Sources	EPN	Limit	Parameter	Condition	Comments Daily visible Emission Inspections per CAM (40 CFR Part 64)		
Furnace Deducting Bottom Seaf Gas (BSG) Dust Collection Wet Scrubber Stack	- 8	5% Opacity	Opacity	30			
Briquetter Dedusting	9 .	5% Opacity -	Opacity	30	Inspections per CAM (40 CFR Part 64)		
HBI Cooling Conveyor	11	5% Opacity	Opacity	30	Daily visible Emission Inspections per CAM (40 CFR Part 64)		
Hot Pressure relief Vent	38	0% Opacity	. Opacity .	30	Dally visible Emission Inspections per CAM (40 CFR Part 64)		

	Any visible emissions from buildings or fugitive
) // / //	sources leaving the property boundary? (Y/N)
Name: / / / / / / / / / / / / / / / / / / /	\mathcal{N}

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



RENTAL INVOICE

** COPY **

CUSTOMER ASSISTANCE:

Page:

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

4 Week

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED SUNDAY CLOSED

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027 Invoice #... 16762616-8 Invoice Date 5/03/17

Date Out.... 10/27/16 12:00 PM Date In.... 5/01/17 2:11 PM

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #..... VOESTAPLINE

P.O. #..... NA

Min

Ordered By . TRENO/MATT/REX

Written By.. REXDA

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment

1

Day

Amount N/C

TRUCK, WATER, 2000 GAL-CDL REQUIRED EQP#: 75244

265.00 265,00 841.50 2360.00

Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

MI OUT: 17245.00 MI IN: 18556.00 TOTAL: 1311.00

Core Supplies > Trino 361-728-5478 Customer Call Off/Special Rates

FINAL BILL: 5/11/17 12:00 PM THRU 5/01/17 02:11 PM.

DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

OVERTIME RATES MAY APPLY

REFUELING, DAMAGES OR REPAIRS

Damage Waiver (12% of gross rental charges) will be charged phsent proof of insurance (see reverse side of this Rental Out Contract).

Customer must contact Customer Assistance to obtain call off rental number and is responsible for the Equipment(s) until it is picked up within a commercially reasonable time.

If Customer fails occurred the Equipment is within the lima specified shove. Customer is deemed to have renoved the Rental Out Contract on the same terms and conditions.

Compliance with California Air Resources Roard (CARIO) Idding Regulation (Title 13, California Code of Regulation (Title 13, Cal

This flental Oil Contract consists of both sides of this document. I have had the apportunity to read the terms and conditions on both sides of this Reptal Oil Contract and have been instructed in the proper use and operation of the Equipment(s) delivered and will ensure that ill operators receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each operation. I have hen familiarized with the idention, purpose, and (unction of all fall operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) reptad herein. I have read and understood the instructions provided, and all questions have been answered to my satisfaction.

By signing below: I represent and warrant that I am of legal age. I am vested with the authority and power to sign this Rental Out Contract on behalf of the Customer, and I am authorized to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions located on the reverse side hereof.

CUSTOMER SIGNATURE

DATE

NAME PRINTED

DELIVERED BY

DATE

Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CYCLE INVOICE

** COPY **

CUSTOMER ASSISTANCE:

Page:

1

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED SUNDAY CLOSED

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE

EQP#: 75244

LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer # .. 291027 Invoice #... 16762616-7

Invoice Date 4/30/17

Date Out.... 10/27/16 12:00 PM

Billed thru. 5/11/17

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #..... VOESTAPLINE

P.O. #.... NA

Ordered By .. TRENO/MATT/REX

Written By.. CYCLE BILL

Sales Rep ... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment

Amount Min Day Week 4 Week

TRUCK, WATER, 2000 GAL-CDL REQUIRED

841.50 2360.00 265.00 265.00

Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

TOTAL: 17245.00

MI OUT: 17245.00 MI IN:

SALES ITEMS:

1

Qty Item number Unit Price EA

1 160642

7.500

7.50

2360.00

ENVIRONMENTAL CHARGE

Core Supplies > Trino 361-728-5478

Customer Call Off/Special Rates

Rental-total: 2367.50

Damage waiver:

283.20 218.68

Taxable Sub-total: 2650.70

(8,25%) Tax: Total:

2869.38

BILLED FOR FOUR WEEKS 4/13/17 THRU 5/11/17

THE EQUIPMENT(S) DOES NOT WORK PROPERLY, IMMEDIATELY CONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

OVERTIME RATES MAY APPLY

CUSTOMER IS RESPONSIBLE FOR

Damago Woiver | 12% of gross rental charges) will be charged absent proof of insurance (see teverse side of this Rental Out Contract).

Customer must contact Customer Assistance to obtain call off cental number and is responsible for the Equipmental until it is picked up within a communically reasonable time.

It Customer lais to return the Equipmentits within the time specified above, Customer is decred to have renewed the Rental Out Contract on the same terms and conditions.

Compliance with California Am Resources Board (CARB) (Intign Regulation (Talle 13, California Code of Regulations \$24.49(18)(18)); Any invested off-load diesel yehicle may not rifle for more than 5 consecutive initiates. Customer is responsible for compliance with CARB off-read diesel engine rifling limits and is responsible for any penalties or lines incurred for not compliance.

This Rental Out Contract consists of both sides of this document. I have had the opportunity to read the terms and conditions on both sides of this Rental Out Contract and have been instructed in the proper use and operation of the Equipment(s) delivered and will ensure that all operations receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each present. I have been familiarized with the location, purpose, and function of all (a) operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) rented herein. I have read and understood the instructions provided, and all questions have been answered to my satisfaction.

By signing below, a represent and warrant that I am of legal age, I am vetted with the authority and power to sign this Rantal Out Contract on behalf of the Customer, and I am authorited to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions foother on the reverse side hereof.

CUSTOMER SIGNATURE

NAME PRINTED

DELIVERED BY

DATE Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CUSTOMER ASSISTANCE:

Page:

1

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED SUNDAY CLOSED

CYCLE INVOICE

** COPY **

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

MI OUT: 17245.00 MI IN:

Customer #.. 291027

Invoice #... 16762616-6 Invoice Date 4/02/17

Date Out.... 10/27/16 12:00 PM

Billed thru. 4/13/17

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #.... VOESTAPLINE

P.O. #.... NA

Ordered By .. TRENO/MATT/REX Written By.. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment Min Day Week

Amount

TRUCK, WATER, 2000 GAL-CDL REQUIRED

265.00 265.00

2360.00 841.50 2360.00

4 Week

EQP#: 75244

Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

TOTAL: 17245.00

SALES ITEMS:

1

Item number Qty 1 160642

Unit EA

Price 7.500

7.50

ENVIRONMENTAL CHARGE

Core Supplies > Trino 361-728-5478

Customer Call Off/Special Rates

Rental-total:

2367,50

Damage waiver:

283.20

Taxable Sub-total: 2650.70

(8.25%) Tax: Total:

218.68 2869.38

BILLED FOR FOUR WEEKS 3/16/17 THRU 4/13/17

IF THE EQUIPMENT(S) DOES NOT WORK PROPERLY, IMMEDIATELY DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

OVERTIME RATES MAY APPLY

CUSTOMER IS RESPONSIBLE FOR REFUELING, DAMAGES OR REPAIRS

Dimage Waiver 112% of gross rental chargest will be chargest absent proof of indusance (see reverse side of this Rental Out Contract).
Custoniter must contact Customer Assistance to obtain call off (rintal number and is responsible for the Equipment (see a contract of the Contract of t

This Rental Out Contract consists of both sides of this document. I have lized the opportunity to read the terms and conditions on both sides of this Rental Out Contract and have been instructed in the proper use and operation of the Equipment(s) delivered and will crayte that all operators receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each operator. I have been tainbalated with the inclusion, purpose, and function of all fall operating controls, (b) safety devices, and of manuals of the specific Equipment(s) rented herein. I have read and understood the instructions provided, and all questions have been provided to the satisfaction.

By signing below, I represent and warrant that I am of legal ago, I am vested with the authority and power to sign this Retital Out Contract on behalf of the Customer, and I am authorized to blind the Customer to the terms and conditions set forth in this Retital Out Contract, including the terms and conditions located on the reverse tide hereof.

CUSTOMER SIGNATURE

DATE

NAME PRINTED

DELIVERED BY

DATE

Torms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CUSTOMER ASSISTANCE:

Page:

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED CLOSED SUNDAY

CYCLE INVOICE

** COPY **

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE

LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027 Invoice #... 16762616-5 Invoice Date 3/05/17

Date Out.... 10/27/16 12:00 PM

Billed thru. 3/16/17

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #..... VOESTAPLINE

P.O. #..... NA

Ordered By.. TRENO/MATT/REX Written By .. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment

4 Week Amount Min Day Week

265.00 265.00 2360.00 1 TRUCK, WATER, 2000 GAL-CDL REQUIRED 841.50 2360.00 Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930 EQP#: 75244

MI OUT: 17245.00 MI IN: TOTAL: 17245.00

SALES ITEMS:

Qty Item number

1 160642

Unit EA

Price

7.500

7.50

ENVIRONMENTAL CHARGE

Core Supplies > Trino 361-728-5478

Customer Call Off/Special Rates

Rental-total: Damage waiver: 2367.50 283.20 218.68

Taxable Sub-total: 2650.70

(8.25%) Tax:

Total:

2869.38

BILLED FOR FOUR WEEKS 2/16/17 THRU 3/16/17

IF THE EQUIPMENT(S) DOES NOT WORK PROPERLY, IMMEDIATELY DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

MULTIPLE SHIFTS OR CUSTOMER IS RESPONSIBLE FOR OVERTIME RATES MAY APPLY REFUELING, DAMAGES OR REPAIRS

Damage Waiver (12% of your renal charges) will be charged absent proof of insurance tree reverse side of this Rential Our Contract).

Customer must contact Customer Assistance to obtain call of rental number and is responsible for the Equipment(a) until it is picked up within a commercially reasonable time.

If Customer fails to return the Equipment(s) within the time specified above, Customer is deemed to have renewed the Rental Our Contract on the same terms and contributes.

Compliance with Calterina An Hesburges David (CARIB) timing Regulation (Table 10, Castomer (134) (10); Any insures of Irraad diesel vehicle may not idle for more than 5 consecutive minutes. Customer is responsible for compliance with CARIB off-road diesel engine idling limits and is responsible for any penalties or fines incurred for non-compliance. This Hental Our Contract consists of both sides of this document. I have had the apportunity to read the terms and conditions on both sides of this Rental Out Contract and have been instructed in the proper use and operation of the Equipment(s) delivered and will ensure that all operators receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each prevator. I have here farminarized with the location, purpose, and function of all fall operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) rented herein. I have read and understood the instructions provided, and all questions have been answered to my satisfaction.

By signing below, I represent and warrant that I am of legal age, I am vested with the authority and power to sign this Rental Out Contract on behalf of the Customer, and I am authorized to blad the Customer to the terms and conditions sat forth in this Rental Out Contract, including the terms and conditions located on the reverse slide beloaf.

CUSTOMER SIGNATURE

DATE NAME PRINTED DELIVERED BY

Tomis: Payment Due within 10 days of invoice. A finance charge of 2% por month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CYCLE INVOICE

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CUSTOMER ASSISTANCE:

Page:

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED

SUNDAY CLOSED

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027

Invoice #... 16762616-4 Invoice Date 2/05/17

Date Out.... 10/27/16

Billed thru. 2/16/17

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #..... VOESTAPLINE

P.O. # NA

Ordered By .. TRENO/MATT/REX Written By .. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Equipment Qty

Min

Day

Week

4 Week

Amount

265.00 265.00

841.50 2360.00

2360.00

EQP#: 75244

TRUCK, WATER, 2000 GAL-CDL REQUIRED

Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

MI OUT: 17245.00 MI IN:

TOTAL: 17245.00

SALES ITEMS:

Ŏгλ

1

Item number

1 160642

Unit EA

Price 7.500

7.50

ENVIRONMENTAL CHARGE

Core Supplies > Trino 361-728-5478

Customer Call Off/Special Rates

Taxable Sub-total: 2650.70

Rental-total: Damage waiver:

2367.50 283.20

(8.25%) Tax:

218.68

Total:

2869.38

BILLED FOR FOUR WEEKS 1/19/17 THRU 2/16/17

THE EQUIPMENT(S) DOES NOT WORK PROPERLY; IMMEDIATELY MULTIPLE SHIFTS OR CUSTOMER IS RESPONSIBLE FOR SCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE OVERTIME RATES MAY APPLY REFUELING, DAMAGES OR REPAIRS

Damage Waiver (12% of gross rental chargest will be charged assent proof of insurance (see reverse ride of this Rental Out Contract).

Customer must contact Contamer Assentance to obtain call of ir ental number and is responsible for the Equipment(s) until it is pecked up within a commercially reasonable time.

If Customer fails to return the Equipment(s) within the time specified above, Customer is deemed to have renewed the Rental Out Contract on the same terms and conditions.

Compliance with Californa An Resources Board (CARB) (diing Regulation IT fills 13, Cultifornia Code of Regulations 12440(folls): Any invested in-road diesel which may not ride for more than 5 consecutive minutes. Customer is responsible for compliance with CARB off-road diesel angine isking limits and is responsible for any penalties or fines incurred for non-compliance.

This Rental Out Contact consists of both sides of this document. I have had the opportunity to read the terms and conditions on both sides of this Rental Out Contract and have been instructed in the proper use and operation of the Enumental delevered and write insure that all operators receive this straining and the instructions contained in the manufacturer's operation in narrual, a copy of which has been provided with the Equipment(s), which will be read by each operator. I have been familianized with the location, purpose, and function of all (a) operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) rented herein. I have read and understood the instructions provided, and off oversions have been asswered to my satisfaction.

and an executive near encourage to any sensemble.

By signing below, I represent and warrant that I am of legal age, I am vested with the authority and power to sign this Rental Out Contract on beholf of the Customer, and I am exittenized to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions leaded on the reverse side hereof.

CUSTOMER SIGNATURE

DATE NAME PRINTED

DELIVERED BY

DATE

Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CYCLE INVOICE

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CUSTOMER ASSISTANCE:

Page:

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 CLOSED SATURDAY SUNDAY CLOSED

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE

LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027 Invoice #... 16762616-3 Invoice Date 1/08/17

12:00 PM Date Out.... 10/27/16

Billed thru. 1/19/17

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #..... VOESTAPLINE

P.O. #..... NA

Ordered By .. TRENO/MATT/REX Written By.. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment

Amount Week 4 Week Min Day

841.50 2360.00 2360.00 265.00 TRUCK, WATER, 2000 GAL-CDL REQUIRED 265.00 1 Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

EQP#: 75244 MI OUT: 17245.00 MI IN:

TOTAL: 17245.00

SALES ITEMS:

Qty Item number

1 160642

Unit EA

Price 7.500

7.50

ENVIRONMENTAL CHARGE

Core Supplies > Trino 3.61-728-5478

Customer Call Off/Special Rates

Taxable Sub-total: 2650.70

Rental-total: Damage waiver: (8.25%) Tax:

2367.50 283.20 218.68

2869.38

BILLED FOR FOUR WEEKS 12/22/16 THRU 1/19/17

DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

MULTIPLE SHIFTS OR OVERTIME RATES MAY APPLY

CUSTOMER IS RESPONSIBLE FOR

Daniage Warrer (12% of goss sental charges) will be charged absent group of insurance (see reverte side of this Rental Out Contract).

Customer must contact Customer Assistance to obtain call off rental number and is responsible for the Equipment(s) within its picked up within a commercially reasonable time.

If Customer fails to return the Equipment(s) within this time specified above, Customer is deemed to have renewed the Rental Out Contract on the same terms and condutions.

If Customer fails to return the Equipment(s) within this time specified above, Customer is deemed to have renewed the Rental Out Contract on the same terms and condutions.

Compliance with California Air Resources Doard (CARB) triging Regulation (Title 13, California Code of Regulations \$2440)(3): Any invited of road diseal vehicle may not idle for more than 5 consecutive minutes. Customer is responsible for compliance with CARB off-road diseal engine idling limits and is responsible for any positive or inour incurrence for non-compliance.

This Rental Out Contract consists of both sides of this document. I have had the opportunity to read the terms and conditions on both sides of this flental Out Contract and have been instructed in the proper use and operation of the Equipmental delivered and will ensure that all operators receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipmentals, which will be read by each operation. I have been familiarized with the location, purpose, and function of all (a) operating controls, (b) safety devices, and (c) manuals of the specific Equipmental rented herein. I have read and understood the instructions provided, and all questions have been familiarized with the location, purpose, and function of all (a) operating controls, (b) safety devices, and (c) manuals of the specific Equipmental rented herein. I have read and understood the instructions provided, and all questions have been answered to my satisfaction.

By signing below. I represent and warrant that I am of legal age, I am vested with the authority and power to sign this Rental Out Contract on behalf of the Customer, and I am authorized to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions located on the reverse side hereof.

CUSTOMER SIGNATURE

DATE NAME PAINTED DELIVERED BY

Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CUSTOMER ASSISTANCE:

Page:

1

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED SUNDAY CLOSED

CYCLE INVOICE

** COPY **

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027

Invoice #... 16762616-2 Invoice Date 12/11/16

Date Out.... 10/27/16 12:00 PM

Billed thru. 12/22/16

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #..... VOESTAPLINE

P.O. #.... NA

Ordered By .. TRENO/MATT/REX Written By .. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment Min

Day

Week

4 Week

Amount

1 TRUCK, WATER, 2000 GAL-CDL REQUIRED

841,50 2360.00 265.00

2360.00

EOP#: 75244 MI OUT: 17245,00 MI IN:

265.00

Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

TOTAL: 17245.00

SALES ITEMS:

Item number Qty

1 160642

Unit EA

Price 7.500

7.50

ENVIRONMENTAL CHARGE

Core Supplies > Trino 361-728-5478

Customer Call Off/Special Rates

Taxable Sub-total: 2650.70

Rental-total:

2367.50 283.20

Damage waiver: (8.25%) Tax:

218.68

Total:

2869.38

BILLED FOR FOUR WEEKS 11/24/16 THRU 12/22/16

THE EQUIPMENT(S) DOES NOT WORK PROPERLY, IMMEDIATELY DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

MULTIPLE SHIFTS OR CUSTOMER IS RESPONSIBLE FOR OVERTIME RATES MAY APPLY REFUELING, DAMAGES OR REPAIRS

Damage Waiver (12% of gross cental charges) will be charged absent proof of insurance isse of this Rental Out Contract.

Customes must contact Customer Assistance to obtain call off rampl number and is responsible for the Equipment(s) until it is picked up within a commercially reasonable time.

If Customer fails to return the Equipment(s) within the time specified above, Customer of detailed on have renewed the Rental Out Contract on the same terms and conditions.

Compliance with Resources Board CARBI (stange legislation in Initia 13, California Code of Regulations 24449(s)(s): Any invested direct direct of the same terms and conditions and it is responsible for compliance with CARBI off-road diesel engine (thing limits and is responsible for any penalties or lines incurred for non-compliance.)

This flential Out Contract consists of high sides of this document. I have had the opportunity to read the terms and conditions on both sides of this Rental Out Contract and have been instructed in the proper use and operation of the Engineerity delivered and will ensure that all operations exceeds this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Engineerity, which will be read by each operation. I have been familiarized with the Incarion, purpose, and function of all (a) operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) rented freein. I have read and understood the instructions provided, and all questions have been answered to my satisfaction.

By signing below, I represent and warrant that I am of legal age, I am vested with the authority and power to sign this Rental Out Contract on behalf of the Customer, and I am authorized to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions located on the reverse side hereof

CUSTOMER SIGNATURE

DATE

NAME PRINTED

DELLVERED BY

DATE

Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CYCLE INVOICE

** COPY **

CUSTOMER ASSISTANCE:

Page:

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 CLOSED SATURDAY SUNDAY CLOSED

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTAPLINE

LA QUINTA TERMINAL PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027 Invoice #... 16762616-1 Invoice Date 11/13/16

Date Out.... 10/27/16 12:00 PM

Billed thru. 11/24/16

Job Loc.... VOESTAPLINE; LAS QUINTA TERM

Job #.... VOESTAPLINE

P.O. #.... NA

Ordered By . TRENO/MATT/REX Written By .. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment

Min Week 4 Week Amount Day

841.50 2360.00 2360,00 TRUCK, WATER, 2000 GAL-CDL REQUIRED 265.00 265.00 Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930 EQP#: 75244

MI OUT: 17245.00 MI IN:

TOTAL: 17245.00

SALES ITEMS:

Item number Qty

1 160642

Unit Price EA.

7.500

7.50

ENVIRONMENTAL CHARGE

Core Supplies > Trino 361-728-5478

Customer Call Off/Special Rates

Rental-total: Damage waiver: 2367.50 283.20 218.68

Taxable Sub-total: 2650.70

(8.25%) Tax: Total:

2869.38

BILLED FOR FOUR WEEKS 10/27/16 THRU 11/24/16

DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE OVERTIME RATES MAY APPLY

MULTIPLE SHIFTS OR

CUSTOMER IS RESPONSIBLE FOR

Demage Waiver 12% of ginss rental charges) will be charged absent proof of insurance Igee reverse aide of this flental Out Contract).

Customizer must contract Customer Assistance to obtain call off rental number and is responsible for the Equipmentals until it is picked up within a commercially reasonable time.

If Customer 1936 to retive the Equipmentals which the time specified above, Customer is Leemed to have renewed the Rental Out Contract on the same terms and conditions.

Compliance with California Air Reconces David (CADI) Idling Regulation (Title 13, Califontia Code of Regulations 5124-10[dil3]: Any in-use off-road deepd vehicle may not ride for more than 5 consecutive minutes. Customer is responsible (C. compliance with CAIII off road decad online) within 15 and 15 responsible for any possible for an

This Rental Qut Contract consists of both sides of this document. I have had the exportantly to read the terms and conditions on both sides of this Rental Qut Contract and have been instructed in the proper use and operation of the Examinential delivered and will entitie that all operators receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the location, purpose, and function of all (a) operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) rented herein. I have read and understood the instructions provided, and all quastions have been answered to my satisfaction.

By signing below, I represent and warrant that I am of legal age, I am vested with the authority and power to sign this Rental Out Contract on behalf of the Customer, and I am authorized to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions for all of the customer to sign this series and conditions set forth in this Rental Out Contract, including the terms and conditions for all of the customer to sign this series and conditions set forth in this Rental Out Contract, including the terms and conditions set forth in this Rental Out Contract, including the terms and conditions for all others.

CUSTOMER SIGNATURE

DATE NAME PRINTED DELIVERED BY

Terms: Payment Duo within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



RENTAL INVOICE

CUSTOMER ASSISTANCE:

Page:

CLOSED

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 CLOSED

SATURDAY ** COPY ** SUNDAY

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTALPINE

LA QUINTA TERMINAL RD PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

TRUCK, WATER, 2000 GAL-CDL REQUIRED

Map page/grid: X/X

Customer #.. 291027

Invoice #... 16351391-3 Invoice Date 10/03/16

8:00 AM Date Out.... 7/20/16 4:02 PM Date In.... 9/30/16

Job Loc.... VOESTALPINE; LAS QUINTA TERM

Job #..... VOESTALPINE

P.O. #..... N/A

Ordered By .. MIKE/MATTA/AMC

Written By.. REXDA

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment Min

Day

Week

4 Week

Amount

265.00 265,00 841.50 2360.00

2360.00

EOP#: 75244

Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

208.00

SALES ITEMS:

1

Qty Item number

1 160642

Unit EA

Price 7.500

7.50

ENVIRONMENTAL CHARGE

MIKE 361-385-6191

Rental-total;

2367.50

Damage waiver:

283.20

Taxable Sub-total: 2650.70

MI OUT: 16955.00 MI IN: 17163.00 TOTAL:

8.25%) Tax: Total:

218.68 2869.38

FINAL BILL: 9/14/16 08:00 AM THRU 9/30/16 04:02 PM.

IF.THE EQUIPMENT(S) DOES NOT WORK PROPERLY, IMMEDIATELY DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

OVERTIME RATES MAY APPLY

CUSTOMER IS RESPONSIBLE FOR REFUELING, DAMAGES OR REPAIRS

Damage Waiver (12% of gross rental charges) will be charged observation of insurance (see reverse side of this Rental Out Contract).

Customer must contact Costomer Assistance to obtain cold of rental number and is responsible for the Equipment(s) until it is picked up within a commercially reasonable fine.

Customer fault on customer Assistance to obtain cold of rental number and is responsible for the Equipment(s) until it is picked up within a commercially reasonable fine.

If Customer fails to return the Equipment(s) within this time specified above, Customer is deemed to have renewed the Rental Out Contract on the same terms and conditions.

Complaintee with California Air Resources Board (CARIS) little (Figure 10) (Figure 2014 of Figure 10). An example of Figure 2014 of Figure 10) (Figure 2014 of Figure 10). An example of Figure 2014 of Figure 10) (Figure 2014 of Figure 2014) (Figure 2014 of Figure 201

Line Hontal Chit Controls consists of both sides of this document. Have held the apparatumly to road the terms and conditions on both sides of this Bental Out Controls and have been instructed in the proper use and operation of the Equipment(s) delivered and will ensure that 30 operations contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each operation. I have been familiarized with the Equipment(s), which will be read by each operation. I have been familiarized with the Equipment(s), which will be read by each operation. I have been familiarized with the Equipment(s) and understood the instructions provide and all responsible to the specific Equipment(s) rented herein. I have read and understood the instructions provide and all responsible have been and the specific Equipment(s) are specific Equipment(s).

By signing below, I represent and workent that I am of legal age. I am vested with the authority and power to sign this Rontal Out Contract on behalf of the Outtonier, and I am authorized to bind the Customer to the terms and conditions set forth in this Rental Out Contract, including the terms and conditions located on the reverse side hereof.

CUSTOMER SIGNATURE

DATE

NAME PRINTED

DELIVERED BY

DATE

Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CYCLE INVOICE

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CUSTOMER ASSISTANCE:

Page:

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 CLOSED SATURDAY SUNDAY CLOSED

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTALPINE

LA QUINTA TERMINAL RD PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer #.. 291027

Invoice #... 16351391-2

Invoice Date 9/03/16

MA 00:8 Date Out.... 7/20/16

Billed thru. 9/14/16

Job Loc.... VOESTALPINE; LAS QUINTA TERM

Job #.... VOESTALPINE

P.O. #..... N/A

Ordered By. . MIKE/MATTA/AMC Written By.. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment

Day 4 Week Amount

841.50 2360.00 2360.00 265.00 265.00 TRUCK, WATER, 2000 GAL-CDL REQUIRED Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

EQP#: 75244

MI OUT: 16955.00 MI IN: TOTAL: 16955.00

SALES ITEMS:

Qty Item number

Unit Price 7.500 1 160642 EA

ENVIRONMENTAL CHARGE

MIKE 361-385-6191

Taxable Sub-total: 2650.70

2367.50 Rental-total:

Damage waiver: 283,20 (8.25%) Tax: 218.68

2869.38

7.50

BILLED FOR FOUR WEEKS 8/17/16 THRU 9/14/16

DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE OVERTIME RATES MAY APPLY

MULTIPLE SHIFTS OR

CUSTOMER IS RESPONSIBLE FOR

Damage Waiver (12% of gross rental charges) will be charged absent proof of insurance (see reverse side of this Rental Out Contract).

Customer must contact Customer Assistance to obtain call off rental number and is responsible for the Equipment(s) until it is picked up within a commercially reasonable time.

If contract is the terms and conditions,

Compliance with California Air Resources Deard (CARD) iding Regulation (Title 13, California Code of Regulations (2249(b)(3)); Any invaso off-road diaset valued may not ridle for more than 5 consecutive minutes. Customer is responsible for compliance with CARD off-road diaset engine killing limits and is responsible for any penalties or fines incurred for non-compliance.

This flental Our Contract consists of both sides of this document. I have had the opportunity to read the terms and conditions on both sides of this flental Out Contract and have been instructed in the proper use and operation of the Equipment(s) delivered and will ensure that all operators receive this training and the instructions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each operator. Those here harmfaired with the location, purpose, and function of all rat operating controls, (b) safety devices, and (c) manuals of the specific Equipment(s) rented herein. I have read and understood the instructions provided, and all releases have been answered to my activities.

thy signing below, I represent and warrant that I am of legal age, I am vested with the authority and power to sign this Rental Out Contract on behalf of the Customer, and I am authorized to bind the Customer to the terms and conditions set forth in this hental Out Contract, including the terms and conditions located on the reverse side hereof.

CUSTOMER SIGNATURE

NAME PRINTED

DELIVERED BY

DATE Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

AHERN RENTALS PO BOX 271390

LAS VEGAS NV 89127-1390

TEL: 702-647-8100 FAX: 702-647-9866



CUSTOMER ASSISTANCE:

Page:

1

CORPUS CHRISTI 7925 BEARDEN DR

CORPUS CHRISTI TX 78409-20

TEL: 361-288-8190 FAX: 361-288-8191 MON - FRI 6:00-5:00 SATURDAY CLOSED YAGNUE CLOSED

CYCLE INVOICE

** COPY **

Customer:

CORE SUPPLIES & MATERIALS 2166 STATE HIGHWAY 35 BYPASS ARANSAS PASS TX 78336-0000

Job Site:

VOESTALPINE

LA QUINTA TERMINAL RD PORTLAND, TX 78374

C#: 832-452-1681 J#: 832-452-1681

Map page/grid: X/X

Customer # .. 291027

Invoice #... 16351391-1 Invoice Date 8/06/16

8:00 AM Date Out.... 7/20/16

Billed thru. 8/17/16

Job Loc.... VOESTALPINE; LAS QUINTA TERM

Job #..... VOESTALPINE

P.O. #..... N/A

Ordered By .. MIKE/MATTA/AMC Written By.. CYCLE BILL

Sales Rep... 4901 - MATTHEW E ANDERSON

Terms..... Net 10 Days

Qty Equipment Min

Day

Week 4 Week Amount

TRUCK, WATER, 2000 GAL-CDL REQUIRED

265.00

841.50 2360.00

2360.00

EOP#: 75244

MI OUT: 16955.00 MI IN:

265.00 Make: FORD Model: F-650 Ser #: 3FRNF65A48V656930

TOTAL: 16955.00

SALES ITEMS:

1

Item number Qty

1 160642

Unit EA

Price 7.500

7.50

ENVIRONMENTAL CHARGE

MIKE 361-385-6191

Rental-total:

2367.50

Damage waiver:

283.20

(8.25%) Tax:

218,68

Taxable Sub-total: 2650.70

Total:

2869.36

BILLED FOR FOUR WEEKS 7/20/16 THRU 8/17/16

EF THE EQUIPMENT(S) DOES NOT WORK PROPERLY, IMMEDIATELY DISCONTINUE USE AND NOTIFY CUSTOMER ASSISTANCE AT ONCE

OVERTIME RATES MAY APPLY

CUSTOMER IS RESPONSIBLE FOR REFUELING, DAMAGES OR REPAIRS

Duringer Waiver (12% of gross ternal charges) will be charged absent proof of insurance (see reverse side of this Renal Out Contract).

Customer must contact Cystomer Assistance to obtain call off renal number and is responsible for the Equipment(s) will it is picked up within a commercially reasonable time.

If Customer fields to return the Equipment(s) within the time specified above. Customer is determed to have renewed the Renal Out Contract on the same terms and conditions.

Compliance with Callorina An Resource Doard (IAARB) (diagn Equipment (file 13), California Code of Regulations (2449)d(i3): Any in-use off-read desel whicle may not title for more than 5 consecutive minutes. Customer is enspossible for compliance with CAIRD off-road desel ongine whop limits and is responsible for any penalties of fines incurred for non-compliance.

This Renal Out Contract consists of both sides of this document, I have fined the appointuity to read the terms and conditions on both sides of this result will necessary the standard of the Equipment(s) delivered and will ensure that all operators receive this training and the Institutions contained in the manufacturer's operation manual, a copy of which has been provided with the Equipment(s), which will be read by each operator. I have been familiarized with the location, purpose, and function of oil (a) operators provided, and all outstons have been provided with the Squipment(s) rented likelin. I have feed and understood the instructions provided, and all outstons have been provided with the Squipment (s) and all outstons have been provided with the feed and understood the instructions provided. and all questions have been answered to my satisfaction

By signing below, I represent and warrant that I am of legal age, I am vested with the putherity and power to sign this flental Out Contract on behalf of the Customer, and I am authorized to bind the Customer to the terms and conditions set forth in this flental Out Contract, including the terms and conditions located on the reverse side hereof.

CUSTOMER SIGNATURE

DATE

NAME PRINTED

DELIVERED BY

DATE

Terms: Payment Due within 10 days of invoice. A finance charge of 2% per month will be added to past due accounts.

2800 Kay Bailey Hutchison Rd. Portland, TX 78374, USA Office: +1 361 704 9000 FAX: +1 361 704 9090 www.voestalpine.com

June 23, 2017

Susan,

Please see below for voestalpine's response to the June, 2017 additional information request.

- (1) Provide documentation to verify if EPN 36 (Remet/Fines Storage) is stored in a bunker.

 EPN 36 is not stored in a bunker.
- (2) Is the water truck usage for the road dust and/or the outside storage pile dust?
 Water trucks are used to control dust from roads. Water trucks are also being used to manage outside storage piles with both water and chemical dust suppression.
- (3) In the recent PBR application for 30 TAC 106.261 (Registration No. 147082), EPNs 41 through 61 include a metric ton amount. Is that the actual current storage amount or is that the maximum planned storage amount at any point in the future? If it is not the current stored amount, please provide the current amount for each EPN.

See below for estimated amounts of material stored at EPNs 41-62.

Unit Description	EPN	Estimated Current Stored (mt)
Remet	41	14500
HBI Chips/Fines	42	6500
Baghouse Fines	43	35
Grade C HBI	44	30000
Iron Ore Pellets RH-20	45	10300
Iron Ore Pellets LKAB BFP	46	95000
Iron Ore Fines	47	12500
Iron Ore Fines	48	12500
Iron Ore Fines	49	4500
HBI Chips (+6.3mm)	50	5000
HBI	51	1000
HDRI Clusters	52	13500
HBI Startup (Mix HBI Chips/Remet)	53	13500
HBI Warmup (Mix HBI/DRI)	54	13500
Grade A HBI	55	10000
Iron Ore Fines/Pellets	56	2500
HBI Chips (-6.3 mm)	57	5000
FRP Cold Briquettes/Fines	58	600
ron Ore Coated Pellets RH-20	59	7000
ron Ore Coated Pellets RH-20	60	11000
HBI Sludge	61	5500
ron Ore Sludge	62	5500



Date: 23 June 2017 Page 2/2

(4) Provide the lb/hr and TPY emissions for all of the outside storage piles (EPNs 41 through 61) from February 17, 2017 (start of outside storage) through June 6, 2017.

See below for estimated emissions from EPNs 41-62.

Emission Summary								
**************************************	Care Care Care Care Care Care Care Care	Unit Description	TSP (as Iron Oxide Dust)		PM10 (as Iron Oxide Dust)			(as Iron e Dust)
EPN	FIN	(as listed on the Plot Plan)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
41	41	Remet 35,000 mt Total	0.29	0.14	0.13	0.04	0.04	0.01
42	42	5,000 mt HBI Chips/Fines Total	0.12	0.13	0.05	0.04	0.02	4.80E-03
43	43	5,000 mt Baghouse Fines Total	0.17	0.85	0.06	0.23	0.01	0.02
44	44	75,000 mt Grade C HBI Total	0.62	0.28	0.27	0.07	0.08	0.01
45	45	60,000 mt Iron Ore Pellets RH 20 Total	0.54	0.17	0.24	0.04	0.07	0.01
46	46	100,000 mt Iron Ore Pellets LKAB BFP Total	0.26	0.34	0.11	0.12	0.03	0.03
47	47	30,000 mt Iron Ore Fines Total	0.19	0.94	0.06	0.25	0.01	0.03
48	48	30,000 mt Iron Ore Fines Total	0.19	0.94	0.06	0.25	0.01	0.03
49	49	15,000 mt Iron Ore Fines Total	0.42	0.88	0.17	0.24	0.05	0.02
50	50	5,000 mt HBI Chips (+6.3mm) Total	0.22	0.89	0.08	0.24	0.02	0.02
51	51	5,000 mt HBI Total	0.12	0.12	0.05	0.03	0.02	4.19E-03
52	52	5,000 mt HDRI Clusters Total	0.13	0.19	0.05	0.05	0.02	0.01
53	53	5,000 mt HBI Startup (Mix HBI Chips/Remet) Total	0.13	0.19	0.05	0.05	0.02	0.01
54	54	5,000 mt HBI Warm Up (Mix HBI/DRI) Total	0.13	0.19	0.05	0.05	0.02	0.01
55	55	75,000 mt Grade A HBI Total	0.60	0.18	0.27	0.05	0.08	0.01
56	56	15,000 mt Iron Ore Fines/Pellets Total	0.42	0.87	0.17	0.23	0.05	0.02
57	57	5,000 mt HBI Chips (-6.3mm) Total	0.22	0.89	0.08	0.24	0.02	0.02
58	58	5,000 mt FRP Cold Briquettes/Fines Total	0.07	0.12	0.03	0.03	0.01	3.22E-03
59	59	20,000 mt Iron Ore Coated Pellets RH 20 Total	0.22	0.15	0.10	0.04	0.03	0.01
60	60	20,000 mt Iron Ore Coated Pellets RH 20 Total	0.23	0.18	0.10	0.05	0.03	0.01
61	61	5,000 mt HBI Sludge Total	0.14	0.89	0.05	0.24	0.01	0.03
62	62	5,000 mt Iron Ore Sludge Total	0.14	0.89	0.05	0.24	0.01	0.03
		Total Emissions	5.57	10.43	2.30	2.80	0.65	0.34

Shannon L. Parham Environmental Manager

voestalpine

ONE STEP AHEAD.

Susan Hoelscher

From:

Sent:

Friday, June 23, 2017 4:35 PM

To:

Susan Hoelscher

Subject:

RE: Information Request

Attachments:

voestalpine Texas LLC 06232017 Response.pdf

Susan,

Please see attached for voestalpine's response to the 6/16/2017 additional information request.

Thank you,

Shannon

Shannon L. Parham Environmental Manager

voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, Texas 78374, United States M. +1 361 229 2865 T. +1 361 704 9000 E. +1 361 704 9090

www.voestalpine.com/texas

voestalpine - One step ahead.

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From: Susan Hoelscher [mailto:Susan.Hoelscher@tceq.texas.gov]

Sent: Friday, June 16, 2017 4:06 PM

To: Parham Shannon

Cc: Hernandez Dominick; Kelly Ruble Subject: RE: Information Request

Good Afternoon Shannon,

Thank you for providing the additional information. Upon review, we have some additional questions.

- (1) Provide documentation to verify if EPN 36 (Remet/Fines Storage) is stored in a bunker.
- (2) Is the water truck usage for the road dust and/or the outside storage pile dust?
- (3) In the recent PBR application for 30 TAC 106.261 (Registration No. 147082), EPNs 41 through 61 include a metric ton amount. Is that the actual current storage amount or is that the maximum planned storage amount at any point in the future? If it is not the current stored amount, please provide the current amount for each EPN.
- (4) Provide the lb/hr and TPY emissions for all of the outside storage piles (EPNs 41 through 61) from February 17, 2017 (start of outside storage) through June 6, 2017.

Please provide this information by Wednesday, June 21, 2017, or sooner if possible. Let us know if you have any questions.

Thank you,

Susan Hoelscher
Air Investigator
TCEQ Region 14-Corpus Christi
(P) 361-825-3118 (F) 361-825-3101
susan.hoelscher@tceq.texas.gov

From:

[mailto:

Sent: Wednesday, June 14, 2017 2:49 PM

To: Susan Hoelscher < Susan. Hoelscher@tceq.texas.gov>

Cc:

Subject: RE: Information Request

Susan,

Please see attached in response to the May 31, 2017 additional information request.

Best Regards, Shannon

Shannon L. Parham Environmental Manager

voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, Texas 78374, United States M. +1 361 229 2865 T. +1 361 704 9000 F. +1 361 704 9090

www.voestalpine.com/texas

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From: Susan Hoelscher [mailto:Susan.Hoelscher@tceq.texas.gov]

Sent: Wednesday, May 31, 2017 3:25 PM

To: Parham Shannon

Cc: Subject: Information Request ; Kelly Ruble; Sonny Lopez

2

Good Afternoon Shannon,

I would like to request some additional information regarding operations at Voestalpine (see below).

- (1) Provide a brief timeline of activities at Voestalpine from start of operations to date including all MSS activities.
- (2) Provide documentation of fugitive suppressant usage for the storage piles and associated operations from start of operations to date.
- (3) Provide documentation of the quarterly visible emissions observations performed on fugitive sources since the start of operations (NSR Permit No. 108113 Special Condition 7). If visible emissions were observed during the quarterly observations, provide the Method 22 evaluation.
- (4) According to NSR Permit No. 108113 Special Condition 17, iron ore pellets shall be stored in enclosed storage. During sampling conducted at Voestalpine on May 24, 2017, it was documented that some iron ore pellets are stored outside. Please provide documentation indicating when outside storage of iron ore pellets began.

Please provide this information to me by next week Wednesday, June 7, 2017, or sooner, if possible. Feel free to contact me or Kelly if you have any questions or concerns.

Thank you,

Susan Hoelscher
Air Investigator
TCEQ Region 14-Corpus Christi
(P) 361-825-3118 (F) 361-825-3101
susan.hoelscher@tceq.texas.gov



ATTACHMENT 20 Exit Interview Documentation

Total Pages: 7

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

TCEQ EXIT INTERVIEW	FORM: Pot	TCEQ EXIT INTERVIEW FORM: Potential Violations and/or Records Requested	ds Requested			
Regulated Entity/	Voestalpii	Voestalpine Texas LLC		TCEQ Add. ID No.	CN604261545	:5
Site Name	La Quinta Plant	Plant		RN No (optional)	RN106597875	.5
Investigation Type	CMPL	ct Made In-House	Y Purpose of	Investigation No. 1415945		
		(Y/N)	Investigation	139 Complaint Incidents		
Regulated Entity	Ms. Shann	Ms. Shannon Parham	Telephone No. 361-229-2865		Date	7/20/17
Contact	Mr. Domi	Mr. Dominck Hernandez			Contacted	
Title	Environm	Environmental Manager	Email		Emailed	7/20/17
	Process W	Process Water Coordinator/Env. Specialist				

NOTICE: The information provided in this Note is intended to provide clarity to issues that have arisen to the date of this Note during the investigation process between the agency and the company and does not represent agency findings related to violations. Any potential or alleged violations discovered after the date of this Note will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in this investigation's final report.

For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe. Rule Citation (if known)	Failure to prevent nuisance dust conditions. Specifically, Voestalpine Texas LLC failed to prevent a discharge from any source whatsoever one or more air contaminants or combinations thereof, in such concentration and of such duration as are or may tend to be injunious to or to adversely affect human health or welfare, animal life, vegetation, or property, or as to interfere with the normal use and enjoyment of animal life, vegetation, or property. Based upon a response to 139 citizen complaints received-on May 16, 2017, May 17, 2017, May 18, 2017, May 20, 2017, May 21, 2017, May 22, 2017, May 22, 2017, May 20, 2017, May 20, 2017, May 20, 2017, June 2, 2017, June 3, 2017, June 19, 2017, June 8, 2017, June 20, 2017, June 27, 2017, June 19, 2017, June 19, 2017, June 20, 2017, J
For Records Request, identify the necess Violation issues, include the rule in ques Rule Citation (if known)	30 Texas Administrative Code (TAC) \$101.4; 5C Texas Health & Safety Code (THSC) \$382.085(b)
Issue For No. Type	AV
Issue No. T	

		The same of the sa			
		TCEQ New Source Review (NSR) Permit No. 108113/PSD:TX1344M1 Special Condition (SC) 17;	Failure to store began storing i	Failure to store iron ore pellets in enclosed storage. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside at the La Quinta Plant on February 17, 2017. The	
. 2	AV	30 TAC §101.20(3) & §116.115(c);	outside storag 2017 and May	outside storage of iron ore pellets was verified during onsite sampling events on May 17, 2017 and May 24, 2017. As of June 6, 2017, Volestalpine Texas LLC had five outside	7,
	-	5C THSC §382.085(b)	storage pues co	storage pues contaming iron ore pellets, Emission Point Numbers (EPN) 45, 46, 56, 59, 60.	
m	AV	30 TAC §116.110(a); 5C THSC §382.085(b)	Failure to obta iron ore pellets fines, clusters, authorization.	Failure to obtain proper authorization. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside on February 17, 2017 and continued to store additional piles of fines, clusters, chips, sludge, and remet, EPNs 41 through 61, without obtaining authorization.	ng L
Note 1: Iss	ue Type	Note 1: Issue Type an Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)	ential Violation), O	Other), or RR (Records Request)	7 [
חות וווה	ורבע מו	Dia tire i CEO aocainein the regulatea entity namea above operating without proper authorization?	ng wimout proper		
Did the inve	investig zed?	Did the investigator advise the regulated entity representative that continued operation is not authorized?	continued opera	ion is not Yes No	
Docume	ent Ack	nowledgment. Signature on this document establinuation pages on the date noted. If contact was m	lishes only that than	esentative received a copy of the	and
Ms. Susan Hoelscher	an Hoek	Scher Buzza Arelsohur	7/20/2017		
	I	Investigator Name (Signed &Printed)	Date	Regulated Entity Representative Name (Signed & Printed)	
If you have	any ques	If you have any questions about any information on this form, please contact your local TCEQ Regional Office.	local TCEQ Regional C	lílice.	

Susan Hoelscher

From:

Susan Hoelscher

Sent:

Thursday, July 20, 2017 2:55 PM

To:

Cc:

; Kelly Ruble; Sonny Lopez; Susan Clewis

Subject: Attachments: Voestalpine Texas LLC-La Quinta Plant Complaint Investigation Exit Interview Form

Voestalpine Exit Interview Form Complaint Inv. No. 1415945_July 20, 2017.pdf

Good Afternoon Shannon,

Attached is the Exit Interview Form (EIF) for the Complaint Investigation, Investigation No. 1415945, conducted from May 16, 2017 through July 19, 2017 in response to 139 dust complaints. Three non-compliance items were documented during the course of the investigation. Refer to the attached EIF for details on the alleged violations (AV).

The EIF has a signature field for the regulated entity representative. This field is optional and its purpose is to acknowledge receipt only of the form and not agreement with the issues. Should you sign the form, please fax it to my attention at the Corpus Christi Region 14 Office or send it via email. Otherwise, please reply to this email verifying you have received and reviewed this document. If you have any questions upon review of this document, feel free to contact me.

Also, please note that the investigation is not final and is subject to change upon management review.

Thank you for your attention to this matter.

Sincerely,

Susan Hoelscher Air Investigator TCEQ Region 14-Corpus Christi (P) 361-825-3118 (F) 361-825-3101 susan.hoelscher@tceq.texas.gov

Susan Hoelscher

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Susan Hoelscher

Sent:

Thursday, July 27, 2017 7:58 AM

To:

Cc:

Kelly Ruble; Sonny Lopez; Susan Clewis

Subject:

RE: Voestalpine Texas LLC-La Quinta Plant Complaint Investigation Exit Interview Form

Good Morning Shannon,

Below are the responses to the questions sent Thursday, July 20, 2017.

Were all 139 citizen complaints that the TCEQ received, analytically verified to have deposits of iron ore dust on the property? If not, could the number of complaints and/or households actually verified by the TCEQ to have iron ore material on property be included in the language of the description of issue?

All 139 complaints were verified to have iron ore dust on their property either through tape lift sample analysis and/or by visual/magnetic verification.

2) Did TCEQ visually observe nuisance iron ore dust emissions emanating from voestalpine property lines on any of the inspection dates?

Visible emissions were not noted emanating from Voestalpine's property during any of the inspection dates; however, a 30 second ambient air tape lift sample was collected on June 23, 2017 downwind of Voestalpine which indicated metal particles present. In addition, citizen collected evidence has indicated that iron ore dust is continuously impacting citizens' property.

3) Is the TCEQ contending that the presence of dust observed on any given date is an indication of a nuisance emission on or about that same date?

The nuisance determination was made based on the date of the investigation at each citizen's (complainant's) location.

Let me know if you have any other questions or need any further clarification.

Thank you,

Susaw Hoelscher
Air Investigator
TCEQ Region 14-Corpus Christi
(P) 361-825-3118 (F) 361-825-3101
susan.hoelscher@tceq.texas.gov

From:

[mailto:

]

Sent: Thursday, July 20, 2017 5:29 PM

To: Susan Hoelscher < Susan. Hoelscher@tceq.texas.gov>

Subject: RE: Voestalpine Texas LLC-La Quinta Plant Complaint Investigation Exit Interview Form

Susan,

I received and reviewed the exit interview form dated 7/20/17. Would it be possible for you to answer a few questions?

1) Were all 139 citizen complaints that the TCEQ received, analytically verified to have deposits of iron ore dust on the property? If not, could the number of complaints and/or households actually verified by the TCEQ to have iron ore material on property be included in the language of the description of issue?

2) Did TCEQ visually observe nuisance iron ore dust emissions emanating from voestalpine property lines on any of

the inspection dates?

3) Is the TCEQ contending that the presence of dust observed on any given date is an indication of a nuisance emission on or about that same date?

Best Regards,

Shannon

Shannon L. Parham Environmental Manager

voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, Texas 78374, United States M. +1 361 229 2865 T. +1 361 704 9000 F. +1 361 704 9090

www.voestalpine.com/texas

voestalpine - One step ahead.

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From: Susan Hoelscher [mailto:Susan.Hoelscher@tceq.texas.gov]

Sent: Thursday, July 20, 2017 2:55 PM

To: Parham Shannon

Cc: Hernandez Dominick; Kelly Ruble; Sonny Lopez; Susan Clewis

Subject: EXT: Voestalpine Texas LLC-La Quinta Plant Complaint Investigation Exit Interview Form

Good Afternoon Shannon,

Attached is the Exit Interview Form (EIF) for the Complaint Investigation, Investigation No. 1415945, conducted from May 16, 2017 through July 19, 2017 in response to 139 dust complaints. Three non-compliance items were documented during the course of the investigation. Refer to the attached EIF for details on the alleged violations (AV).

The EIF has a signature field for the regulated entity representative. This field is optional and its purpose is to acknowledge receipt only of the form and not agreement with the issues. Should you sign the form, please fax it to my attention at the Corpus Christi Region 14 Office or send it via email. Otherwise, please reply to this email verifying you have received and reviewed this document. If you have any questions upon review of this document, feel free to contact me.

Also, please note that the investigation is not final and is subject to change upon management review.

Thank you for your attention to this matter.

Sincerely,

Susan Hoelscher
Air Investigator
TCEQ Region 14-Corpus Christi
(P) 361-825-3118 (F) 361-825-3101
susan.hoelscher@tceq.texas.gov



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Complaint Investigation Exit Interview Meeting Voestalpine Texas LLC CN604261545 La Quinta Plant

RN106597875

Thursday, August 10, 2017 at 2:30 pm

Name	Title	Preferred Means of Contact (e-mail address or phone number)
Susan Hoeischer	Air Section EI	susan, hodscher@toeg, texas, gov
Kelly Ruble	Air Section Monroper	Kelly ruble Otera texas you
Susan Clewis	Regional Director	Susan clewis etceg texas go
Sinny Lappet	Air Section Work Lead	Sony Lonet & Ges texas 50
Melan SCHWARZ	CTO, woodayna	
Shannon L.Parham	Environmental Marager	
Michael Chernekoff	Johns Walker Outside Counsel	
Lara Pringle	Jones walker, outside ausel	
Jess Robinson	Staff Attorney	jess.robinson@toeq.texas.gov



ATTACHMENT 21 Exit Interview Form Response

Total Pages: 122

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Refer to the CONFIDENTIAL FILE for the Exit Interview Form Response.

This page was intentionally left blank.



ATTACHMENT 22 Permit by Rule Registration No. 147082 Documentation

Total Pages: 6

Investigation No. 1415945

RN106597875 La Quinta Plant

CN604261545 Voestalpine Texas LLC

May 16, 2017 - September 8, 2017

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Jon Niermann, Commissioner Richard A. Hyde, P.E., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 06, 2017

MS SHANNON PARHAM **ENVIRONMENTAL MANAGER** VOESTALPINE TEXAS LLC 2800 KAY BAILEY HUTCHINSON RD PORTLAND TX 78374-7400

Permit by Rule Registration Number:

147082

Voestalpine Texas LLC

La Quinta Plant

Portland, San Patricio County

Regulated Entity Number:

RN106597875 CN604261545

Customer Reference Number:

Affected Permit:

108113 and PSDTX1344

This is in response to your certification Form PI-7 CERT regarding the La Quinta Plant located at 2800 Kay Bailey Hutchinson Rd, Portland, San Patricio County.

Voestalpine Texas LLC has certified the emissions under Title 30 Texas Administrative Code (TAC) § 106.261. For rule information see: www.tceq.texas.gov/permitting/air/nav/numerical_index.html

As referenced in 30 TAC § 116.116(d)(2), all changes authorized under Chapter 106 to a permitted facility shall be incorporated into the NSR Permit No. 108113 and PSDTX1344 when it is amended or renewed. The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements.

If you need further information or have questions, please contact Ms. Nancy Akintan at (713) 767-3773 or write to the Texas Commission on Environmental Quality (TCEQ), Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under the authority delegated by the Executive Director of the TCEQ.

Sincerely.

Samuel Short, Manager Rule Registrations Section

Air Permits Division

Air Section Manager, Region 14 - Corpus Christi

Project Number: 270052

P.O. Box 13087 · Austin, Texas 78711-3087 · 512-239-1000 · tceq.texas.gov

Emission Sources - Certified Emission Rates

Registration Number 147082

This table lists the certified emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

ESTIMATED EMISSIONS

EPN / Emission Source	PM ((TSP)	a	PM ₁₀	PM 2.5	2.5	VOC	NOx
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr tpy	lbs/hr tpy
14 / HBI Pile Screener	2.43	2.43	0.82	0.82	90.0	90.0		
36 / Remet / Fines Storage Screener	0.73	0.14	0.24	0.05	0.02	<0.01		
41 / Remet 35,000 mt	0.12	0.18	0.04	0.04	0.01	<0.01		
42 / 5,000 mt HBI Chips/Fines	0.05	70.0	0.02	0.02	<0.01	<0.01		
43 / 5,000 mt Baghouse Fines	0.12	0.45	0.04	0.12	<0.01	0.04		
44 / 75,000 mt Grade C HBI	0.23	0.31	60.0	0.07	0.03	0.01		
45 / 60,000 mt Iron Ore Pellets RH 20	0.20	0.26	0.08	90.0	0.02	0.01		
46 / 100,000 mt Iron Ore Pellets LKAB BFP	0.14	0.39	0.04	60.0	0.01	0.02		
47 / 30,000 mt Iron Ore Fines	0.15	0.57	0.04	0.15	<0.01	0.02		
48 / 30,000 mt Iron Ore Fines	0.15	0.57	0.04	0.15	<0.01	0.02		
49 / 15,000 mt Iron Ore Fines	0.21	0.50	0.07	0.13	0.02	0.01		
50 / 5,000 mt HBI Chips (+6.3mm)	0.14	0.45	0.04	0.12	<0.01	0.01		
51 / 5,000 mt HBI	0.05	0.07	0.02	0.02	<0.01	<0.01		
52 / 5,000 mt HDRI Clusters	0.05	20.0	0.02	0.02	<0.01	<0.01		
53 / 5,000 mt HBI Startup (Mix HBI Chips/Remet)	0.05	20.0	0.02	0.02	<0.01	<0.01		
54 / 5,000 mt HBI Warm Up (Mix HBI/DRI)	0.05	20.0	0.02	0.02	<0.01	<0.01		
55 / 75,000 mt Grade A HBI	0.23	0.31	0.09	0.07	0.03	0.01		
56 / 15,000 mt Iron Ore Fines/Pellets	0.21	0.50	0.07	0.13	0.02	0.01		
57 / 5,000 mt HBI Chips (-6.3mm)	0.14	0.45	0.04	0.12	<0.01	0.01		
58 / 5,000 mt FRP Cold Briquettes/Fines	0.03	20.0	0.01	0.02	<0.01	<0.01		
59 / 20,000 mt Iron Ore Coated Pellets RH 20	60.0	0.12	0.03	0.03	<0.01	<0.01		
60 / 20,000 mt Iron Ore Coated Pellets RH 20	60.0	0.12	0.03	0.03	<0.01	<0.01		
61 / 5,000 mt HBI Sludge	0.11	0.45	0.03	0.12	<0.01	0.01		
62 / 5,000 mt Iron Ore Sludge	0.11	0.45	0.03	0.12	<0.01	0.01		
TOTAL EMISSIONS (TPY):		9.10		2.52		0.28		
MAXIMUM OPERATING SCHEDULE: Hour	Hours/Day	Days	Days/Week	W	Weeks/Year		Hours/Year	8,760

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	147082	Company Name:	Voestalpine Texas LLC	APD Reviewer:	Nancy Akintan
Project No.:	270052	Unit Name:	La Quinta Plant	PBR No(s).:	106.261

GENERAL INFORMATION			
Regulated Entity No.:	RN106597875	Project Type:	Permit by Rule Application
Customer Reference No.:	CN604261545	Date Received by TCEQ:	June 6, 2017
City/County:	Portland, San Patricio County	Date Received by Reviewer:	June 9, 2017
Physical Location:	2800 Kay Bailey Hutchinson Rd		

CONTACT INFORMATION				317 5
Responsible Official/ Primary Contact Name and Title:	Ms. Shannon Parham Environmental Manager	Phone No.: Fax No.:	(361) 229-2865	Email:

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Has the PBR fee been paid?	X		
Is this registration certified?	X		
Is this an APWL site?		X	
Are there any upstream or downstream affects associated with this registration?		X	An increase in production of HBI on an annual or hourly basis or processing rate for the fines is not expected. All related emissions, such as moving the material, are accounted for within the registration or the existing PSD air permit.
Is planned MSS included in the registration?		X	
Are there affected NSR or Title V authorizations for the project?	×		NSR Permit 108113 and PSDTX1344. Emissions should be incorporated into permit 108113 at next amendment or renewal
Is each PBR > 25/250 tpy?	10, 1	X	
Are PBR sitewide emissions > 25/250 tpy?	N	A	Site has gone through Public Notice
Are there permit limits on using PBRs at the site?	7	X	
Is PSD or Nonattainment netting required?		X	PSD or Nonattainment netting not required.
Do NSPS, NESHAP, or MACT standards apply to this registration?		Х	
Does NOx Cap and Trade apply to this registration?		X	There are no NOx emissions associated with this project.
Is the facility in compliance with all other applicable rules and regulations?	×		Company represents that the site is in compliance with all other applicable rules and regulations.

DESCRIBE OVERALL PROCESS AT THE SITE

Voestalpine Texas LLC operates a direct reduced iron (DRI) and hot briquette iron (HBI) production facility near Portland, San Patricio County. The facility will receive iron oxide pellets by ship and convert them into iron briquettes. Site is authorized under NSR Permit 108113 and PSDTX1344.

DESCRIBE PROJECT AND INVOLVED PROCESS

Voestalpine Texas LLC submitted Form PI-7 CERT to authorize emissions from the addition of new storage piles, screeners, and mist sprayer emission control equipment at the La Quinta Plant.

Additional storage piles and screeners at existing piles will be added to the La Quinta Plant to accommodate additional material processed at the facility. Additional storage is needed because the facility, for the short term, received more raw material by ship on a monthly basis than can be stored in the process building. Annual ore usage, however, will not exceed what was permitted in the PSD permit. Also, fines generated by material handling during the process will be sent to the Fines Recycling Plant, which will eventually be fed back into the main process as feedstock. Until the material can be processed, the fines need a storage location.

The storage piles (EPNs 41 through 62) will contain various grades of hot-briquetted iron, direct reduced iron, and various iron oxide pellets, fines, and chips. These materials are exposed to the atmosphere as they are loaded and unloaded using a front-end loader. Fugitive dust generated by the storage piles is controlled by a DB-60 DustBoss® mister using water spray. Additionally, the piles are partially covered with a tarp when the DB-60 DustBoss® mister is not in use. Voestalpine has assumed a control efficiency of 70% for these combined control methods. Lastly, particulate screeners are being added to existing storage piles (EPNs 14 and 36).

Detailed emission calculations are on file.

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

PBR 106.261 Compliance Demonstration

- The emission point(s) associated with the facilities or changes to facilities are located at least 100 ft from the nearest off-site receptor.
- . The total new or increase emissions will comply with the applicable hourly and annual emission limits as represented in the table below.
- · There are no changes to or addition of any pollution abatement equipment.
- Visible emissions to the atmosphere, from any point or fugitive source, do not exceed 5.0 opacity in any six-minute period.
- This registration is not for authorization for construction or to change a facility authorized under another section of this chapter or under standard permit.

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	147082	Company Name:	Voestalpine Texas LLC	APD Reviewer:	Nancy Akintan
Project No.:	270052	Unit Name:	La Quinta Plant	PBR No(s).:	106.261

	PBR 106.261(2)			-
Air Contaminant	Emiss	on Limit	Actual Emissions	
	Lb/hr	Тру	lb/hr	tpy
Fe ₂ O ₃ Dust	6.00	10.00	5.85	9.10
		TOTAL EMISSIONS:	5.85	9.10*

PM is incl	usive of PM10	and PM2.5	
COMMUN	IICATION LO	G The state of the	68 기업 - 기업
Date	Time	Name/Company	Subject of Communication
6/27/17	4.10pm	Ms. Shannon Parham	Ms. Parham: I am currently reviewing the above referenced PBR Registration for the addition of new storage piles, screeners, and mist sprayer emission control equipment at the La Quinta Plant. Kindly give more information on why the additional storage is needed. Is the project going to cause increase in production and are there any upstream or downstream affects associated with this registration? I will appreciate your immediate response. TCEQ has a 5 day policy on missing/deficient information.
	9		Regards
6/28/17	10:24am		Ms. Akintan, Additional storage is needed because the facility, for the short term, received more raw material by ship on a monthly basis than can be stored in the process building. Annual ore usage, however, will not exceed what was permitted in the PSD permit. Also, fines generated by material handling during the process will be sent to the Fines Recycling Plant, which will eventually be fed back into the main process as feedstock. Until the material can be processed, the fines need a storage location. As far as upstream/downstream affects, an increase in production of HBI on an annual or hourly basis or processing rate for the fines is not expected. All related emissions, such as moving the material, are accounted for within the registration or the existing PSD air permit.
		7.	Best Regards, Shannon

EPN / Emission Source		TSP)	PI	PM ₁₀		PM 2,5		VOC)x
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
14 / HBI Pile Screener	2.43	2.43	0.82	0.82	0.06	0.06				
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45 / 60,000 mt Iron Ore Pellets RH 20	0.20	0.26	0.08	0.06	0.02	0.01				
46 / 100,000 mt Iron Ore Pellets LKAB BFP	0.14	0.39	0.04	0.09	0.01	0.02				
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48 / 30,000 mt Iron Ore Fines	0.15	0.57	0.04	0.15	<0.01	0.02				
49 / 15,000 mt Iron Ore Fines	0.21	0.50	0.07	0.13	0.02	0.01				
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52 / 5,000 mt HDRI Clusters	0.05	0.07	0.02	0.02	<0.01	<0.01				
53 / 5,000 mt HBI Startup (Mix HBI Chips/Remet)	0.05	0.07	0.02	0.02	<0.01	<0.01				
54 / 5,000 mt HBI Warm Up (Mix HBI/DRI)	0.05	0.07	0.02	0.02	<0.01	<0.01				
55 / 75,000 mt Grade A HBI	0.23	0.31	0.09	0.07	0.03	0.01				
56 / 15,000 mt Iron Ore Fines/Pellets	0.21	0.50	0.07	0.13	0.02	0.01				
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59 / 20,000 mt Iron Ore Coated Pellets RH 20	0.09	0.12	0.03	0.03	<0.01	<0.01				
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61 / 5,000 mt HBI Sludge	0.11	0.45	0.03	0.12	<0.01	0.01				
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TOTAL EMISSIONS (TPY):		9.10		2.52		0.28				
MAXIMUM OPERATING SCHEDULE: Hours/Day	横	Days/We	ek .	We	eks/Year	16.74	Ho	urs/Ye	ear 8	,760

SITE REVIEW / DISTANCE LIMIT	Yes	No	Description/Outcome	Date	Reviewed by
Site Review Required?		X			

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	147082	Company Name:	Voestalpine Texas LLC	APD Reviewer:	Nancy Akintan
Project No.:	270052	Unit Name:	La Quinta Plant	PBR No(s).:	106.261

PBR Distance Limits Met?	X	>100 feet from the nearest property line and	06/23/2017	As represented by the
1		1000 feet to the nearest off-plant receptor		company

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:	Nancy Akintan	John Bussin	Sunt D
PRINTED NAME:	Ms. Nancy Akintan	Mr. John Bregger	Mr. Sam Short, Manager
DATE:	June 28, 2017	June 28, 2017	July 06, 2017

Questions or Comments >>

	Search Options	CR Query	TCEQ Home
o To: Title V Federal Operating Permits			
7/13/2017AirPermits IMS - PROJECT RECORD			
istomer Name: VOESTALPINE TEXAS LLC igal Name: voestalpine Texas LLC N Number: CN604261545			
egion: CORPUS CHRISTI Account: Central Registry Id: RN106597875			
ounty Name: SAN PATRICIO City: CORPUS CHRISTI ETJ			
ocation : FROM CORPUS CHRISTI TAKE US-181N ONTO FM RD 136 AND GO APPROX 1.0 MI GO R ONTO LA QUINTA RD/ BOUNDED ON THE E BY LA QUINTA RD AND THE S BY CORPUS CHRISTI BAY	PVT RD 87A AND THE SI	TE IS APPROX 2.0	MI DOWN ON R. I
OJECT INFORMATION		*	
roject Administrative Name: PBR NEW REGISTRATION roject Technical Name: LA QUINTA PLANT			
oject Number: 270052 Permit Number: 147082			
oject Received Date: 06/06/2017 Renewal Date: Issued Date: 07/06/2017			
oject Type: INITIAL Permit Type: PERMIT BY RULE oject Status: COMPLETE			
signed Staff: EVIEW ENG: AKINTAN , NANCY PEERREVIEW: BREGGER , JOHN			
aff Group:			
R TEAM 1			
eference Fee Receipt Number Amount Fee Receipt Date Fee Payment Type			
25033 582EA000261235 450.00 06/06/2017 CC			
ACKING ELEMENTS			
Name Start Date Complete Date			
EER / MANAGER REVIEW PERIOD 06/28/2017 07/06/2017 EER / MANAGER REVIEW PERIOD 06/28/2017 07/06/2017			1
FICIENCY CYCLE 06/27/2017 06/28/2017			
GINEER INITIAL REVIEW COMPLETED (DATE) 06/21/2017			
OLECT RECEIVED BY ENCYMER (DATE)			
ROJECT RECEIVED BY ENGINEER (DATE) 06/09/2017			
OJECT RULES:			

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See note: Who Fills out the EAR? u

Enforcement
Action
Referral
Rev. 3/18/2002

Inv.#	1415945	Initiated by: Region, LP, Central:	Region
Enf Case		Name of Initiating Office:	REGION 14 - CORPUS CHRISTI
Media Code:	AQ		

Section 1: Respondent

ID	CN604261545		1			Role	RESP PARTY
Name	VOESTALPINE TE	XAS LLC	*				¥
Mailing	Street/PO Box 2800 KAY BAILEY HUTCHISON RD						
Address	City/State/Zip	PORTLAND, TX 78374	PORTLAND, TX 78374				
-	Phone	(361) 704-9000	Fax	(361)	704-9090		
ID	ONC00226450					Role	REFERFROM
'	CN600336150					TOIC	INCI EN NOW
Name	CITY OF PORTLAN	ND				TOIC	TALL LIVE NOW
Name Mailing		ND				Noic	INCI EN NOW
Name	CITY OF PORTLAN	ND ,					TALLEN NOW
Name Mailing	CITY OF PORTLAN	ND ,	Fax			Noic	TALL LALINOW

Primary Contact (NOE Contact)					
Name	HELMUT SCHWARZ	Organization VOESTALPINE TEXAS LLC			
Title	Chief Technical Officer	Phone (361) 229-0760	Fax (361) 704-9090		

Section 2: Respondent's Facility/Operation (F/O)

F/O ID	RN106597875				
F/O Name	LA QUINTA PLANT				
F/O Physical Address	FROM CORPUS CHRISTI TAKE US-181N ONTO FM RD 136 AND GO APPROX 1.0 MI GO R ONTO LA QUINTA RD/PVT RD 87A AND THE SITE IS APPROX 2.0 MI DOWN ON R. IT IS BOUNDED ON THE E BY LA QUINTA RD AND THE S BY CORPUS CHRISTI BAY				
Location City	CORPUS CHRISTI ETJ	Location Zip	78374		
Location County	SAN PATRICIO	Operational Status	Active		
Primary Business Activity	DRI & HBI Operations	Type of Small Entity	None of the Above		
SNC or HPV?	N/A	SIC Code	3312		
Potentially Affected Area	Residential Areas in Portland, Texas	Complaints Closed	50		
List any NOVs?Orders for same or similar violations at this F/O in the past 5 years.	N/A				

Additional IDs	108113
	147082
	GHGPSDTX43
	PSDTX1344M1

Section 3: Summary of Violations

See note: Inclustion of Resolved or Verbal Violations u

Viol	Requirements Cited	Violatio	on Dates	Investigation/	Dat	e of	CAT
Num	Violation Description	Start	End	File Review	NOV	NOE	
651644	30 TAC Chapter 101.4	Unknown	Unknown	05/16/2017		11/03/2017	В
5C THSC Chapter 382.085(b)		Unknown	Unknown	05/16/2017	*********	11/03/2017	В
	Failure to prevent nuisance dust cor	nditions.					
651649	30 TAC Chapter 101.20(3)	02/17/2017	07/06/2017	05/16/2017		11/03/2017	В
	30 TAC Chapter 116.115(c)	02/17/2017	07/06/2017	05/16/2017		11/03/2017	В
	5C THSC Chapter 382.085(b)	02/17/2017	07/06/2017	05/16/2017		11/03/2017	В
	PERMIT PSDTX1344M1, Special Condition 17	02/17/2017	07/06/2017	05/16/2017		11/03/2017	В
	Failure to store iron ore pellets in en	closed storag	e.				
651654	30 TAC Chapter 116.110(a)	02/17/2017	07/06/2017	05/16/2017		11/03/2017	В
	5C THSC Chapter 382.085(b)	02/17/2017	07/06/2017	05/16/2017		11/03/2017	В
	Failure to obtain proper authorizatio	n.					

Section 4: Additional Discussion

Based on the current investigation (refer to Investigation Nos. 1415945, 1430244, 1430249) of 141 complaints responded to on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, July 19, 2017, September 8, 2017, and October 16, 2017 that documented nuisance dust conditions, the documented noncompliance warrants formal enforcement for the number of citizens in the Portland community impacted by the metallic particles (iron ore dust). The citizens have been unable to have normal use and enjoyment of their property due to the accumulation of the iron ore dust on and in their residences, in their pools, in their yards, on their children's outdoor play equipment, and on their vehicles. A variance request was approved by Ms. Susan Clewis, TCEQ R14 Regional Director, on August 16, 2017 to initiate formal enforcement against the La Quinta Plant.

Section 5: Additional Issues

N/A

Section 6: Information About Initiating Office

	Name	Susan Hoelscher	Date	11/2/17
Sign	nature	Susem Helscher	E-Mail	Susan.Hoelscher@tceq.texas.gov
	Phone	361-825-3118		
	Name	Kelly Ruble	Date	11/3/17
Sig	Name nature	Kelly Ruble		///3/17 Kelly.Ruble@tceq.texas.gov

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INTEROFFICE MEMORANDUM

To:

Susan Clewis, Regional Director

Corpus Christi Region Office

Thru:

Kelly Ruble, Air Section Manager Corpus Christi Region Office

From:

Susan Hoelscher, Environmental Investigator

Corpus Christi Region Office

Subject:

Request to initiate enforcement against Voestalpine Texas LLC-

Date: August 16, 2017

La Quinta Plant, 2800 Kay Bailey Hutchinson Road,

Portland (San Patricio County), Texas

TCEQ Regulated Entity Number: RN106597875

In accordance with the TCEQ's formal enforcement initiation criteria guidance document, Ms. Susan Hoelscher, TCEQ Corpus Christi Region Air Section Environmental Investigator (EI), is requesting to initiate enforcement against this facility.

Voestalpine Texas LLC's La Quinta Plant is located east/southeast of Portland in San Patricio County, Texas. The La Quinta Plant consists of Direct Reduced Iron (DRI) and Hot Briquetting Iron (HBI) operations. The general process at the facility includes the conversion of iron oxide pellets into iron pellets that are pressed into iron briquettes. The DRI process consists of two main components, a Reformer (to produce the reducing agent) and the DRI reactor (where the reaction occurs). The DRI process converts pre-processed iron oxide pellets into highly metallized iron in the form of DRI or HBI.

On May 16, 2017, the TCEQ Corpus Christi Region Office started receiving citizen complaints that alleged metallic particles on their property (including vehicles) allegedly from the La Quinta Plant. The TCEQ Corpus Christi Region Office continued receiving complaint's until July 18, 2017 with a total of 139 complaints. investigations were conducted on 19 days with the assistance of 19 TCEQ Corpus Christi Region Staff. Tape lift samples were initially obtained at each residence. However, due to the number of complaints that were continuously received, tape lift samples began being obtained only if the metallic particles could not be confirmed with a magnet at the residence. If the EIs could document the metallic particles at the citizen's residence without obtaining a tape lift sample, the citizen was noted as impacted by the metallic particles. All tape lift samples obtained were compared to the reference samples collected on May 17, 2017 from the outdoor storage piles at the La Ouinta Plant. It was documented that there were outdoor storage piles of iron ore pellets, fines, clusters, chips, sludge, and remet. The x-ray spectra of the samples from the citizens' residences were confirmed consistent with the reference samples. The metallic particles were documented at citizens' residences located up to approximately three miles to the northwest, west, and southwest of Voestalpine. Southeast, east, and northeast winds would have impacted these areas. It should be noted that the prevailing winds are from the southeast.

On **May 24, 2017**, additional samples were collected from ten of the outdoor storage piles at the La Quinta Plant for a heavy metal analysis.

On **June 6, 2017**, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. The amount stored in each pile ranged from approximately 35 metric tons to 95,000 metric tons. On **July 6, 2017**, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

On **June 23**, **2017**, a 30 second ambient air tape lift sample was collected at the backyard of a complainant's residence which bordered an open field directly downwind of the La Quinta Plant. The results of the tape lift indicated metallic particles were present. In addition, citizen collected evidence (CCE) was submitted to the TCEQ Corpus Christi Region Office on **July 14**, **2017** also indicating that the dusting issue had been ongoing.

As a result of these investigations, the following three Category B Violations (as per the TCEQ Enforcement Initiation Criteria) were documented:

1. Title 30 Texas Administrative Code (TAC) §101.4 and Title 5C Texas Health & Safety Code (THSC) §382.085(b) - Failure to prevent nuisance dust conditions. Specifically, Voestalpine Texas LLC failed to prevent a discharge from any source whatsoever one or more air contaminants or combinations thereof, in such concentration and of such duration as are or may tend to be injurious to or to adversely affect human health or welfare, animal life, vegetation, or property, or as to interfere with the normal use and enjoyment of animal life, vegetation, or property. Based upon a response to 139 citizen complaints received on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 21, 2017, May 22, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, May 31, 2017, June 2, 2017, June 5, 2017, June 7, 2017, June 8, 2017, June 12, 2017, June 13, 2017, June 14, 2017, June 16, 2017, June 19, 2017, June 20, 2017, June 22, 2017, June 27, 2017, June 30, 2017, and July 18, 2017, by the TCEQ's onsite observations, analyses of samples collected, and review of citizen collected evidence, it was determined that deposits of particulate matter (iron ore dust) from the La Quinta Plant were found in sufficient concentration and of such duration to interfere with normal use and enjoyment of property. Nuisance dust conditions were documented on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, and July 19, 2017.

- 2. TCEQ New Source Review (NSR) Permit No. 108113/PSDTX1344M1 Special Condition (SC) 17; Title 30 Texas Administrative Code (TAC) §101.20(3) and §116.115(c), and Title 5C Texas Health & Safety Code (THSC) §382.085(b) Failure to store iron ore pellets in enclosed storage. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside at the La Quinta Plant on February 17, 2017. The outside storage of iron ore pellets was verified during onsite sampling events on May 17, 2017 and May 24, 2017. As of June 6, 2017, Volestalpine Texas LLC had five outside storage piles containing iron ore pellets, Emission Point Numbers (EPN) 45, 46, 56, 59, 60.
- 3. Title 30 Texas Administrative Code (TAC) §116.110(a) and Title 5C Texas Health & Safety Code (THSC) §382.085(b) Failure to obtain proper authorization. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside on February 17, 2017 and continued to store additional piles of fines, clusters, chips, sludge, and remet, EPNs 41 through 61, without obtaining authorization.

Based on the current investigation (refer to Investigation Nos. 1415945, 1430244, 1430249) of **139 complaints** responded to on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, and July 19, 2017 that documented nuisance dust conditions, the documented noncompliance warrants formal enforcement for the number of citizens in the Portland community impacted by the metallic particles (iron ore dust). The citizens have been unable to have normal use and enjoyment of their property due to the accumulation of the iron ore dust on and in their residences, in their pools, in their yards, on their children's outdoor play equipment, and on their vehicles.

For your convenience, at the bottom of this pmarked either "Approved" or "Not Approved	." If you have any questions concerning
this report, please contact me at (361) 825-	3118. /
Susan Helscher 6/16/17	Kelly L. St. 8/16/17
Susan Hoelscher (Date)	Kelly Ruble (Date)
TCEQ R14 Environmental Investigator	TCEQ R14 Air Section Manager
Request for initiating enforcement is:	Approved
Request for initiating emorcement is:	
Sun Clevi 8/16/17	Not Approved
Susan Clewis (Date)	

TCEO R14 Regional Director

be ng Bryan W. Shaw, Ph.D., P.E., *Chairman*Toby Baker, *Commissioner*Jon Niermann, *Commissioner*Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 3, 2017

<u>CERTIFIED MAIL #91 7199 9991 7038 1504 0215</u> RETURN RECEIPT REQUESTED

Mr. Helmut Schwarz Chief Technical Officer Voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, Texas 78374

Re: Notice of Enforcement for the Complaint Investigation at: La Quinta Plant, 2800 Kay Bailey Hutchison Road, Portland (San Patricio County), Texas Regulated Entity No.: 106597875; Investigation Nos.: 1415945, 1430244, and 1430249

Dear Mr. Schwarz:

On May 16, 2017 through October 16, 2017, Ms. Susan Hoelscher of the Texas Commission on Environmental Quality (TCEQ) Corpus Christi Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for air quality. During this investigation, certain alleged violations were documented. Enclosed is a copy of the investigation report and a summary which lists the investigation findings and recommended corrective actions. Additional recommended corrective actions may be provided by the Enforcement Division.

In the listing of the alleged violations we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at http://www.tceq.texas.gov for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Corpus Christi Regional Office at (361) 825-3100 or the Central Office Publications Ordering Team at (512) 239-0028.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violation.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

Mr. Helmut Schwarz Page 2 November 3, 2017

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable, but where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

Also, if you believe the violations documented in this notice have been cited in error **and** you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

Manager, Air Section Enforcement Division, MC 219 Re: Enforcement Meeting Request Texas Commission on Environmental Quality PO Box 13087 Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Ms. Hoelscher in the Corpus Christi Region Office at (361) 825-3100.

Sincerely,

Kelly Edward Ruble Air Section Manager

Corpus Christi Region Office

Texas Commission on Environmental Quality

KER/SMH/mjd

Enclosures: Investigation Report with Summary of Investigation Findings

cc: Ms. Shannon L. Parham, Environmental Manager, Voestalpine Texas LLC

Mr. Cade Mason, Staff Attorney, Voestalpine Texas LLC

Summary of Investigation Findings

LA QUINTA PLANT

Investigation #

1415945 Investigation Date: 05/16/2017

, SAN PATRICIO COUNTY,

Additional ID(s): GHGPSDTX43 PSDTX1344M1

108113 147082

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 651644

Compliance Due Date: To Be Determined

30 TAC Chapter 101.4

5C THSC Chapter 382,085(b)

Alleged Violation:

Investigation: 1415945

Comment Date: 11/02/2017

Failure to prevent nuisance dust conditions. Specifically, Voestalpine Texas LLC failed to prevent a discharge from any source whatsoever one or more air contaminants or combinations thereof, in such concentration and of such duration as are or may tend to be injurious to or to adversely affect human health or welfare, animal life, vegetation, or property, or as to interfere with the normal use and enjoyment of animal life, vegetation, or property. Based upon a response to 141 citizen complaints received on May 16, 2017, May 17, 2017 May 18, 2017, May 19, 2017, May 20, 2017, May 21, 2017, May 22, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, May 31, 2017, June 2, 2017, June 5, 2017, June 7, 2017, June 8, 2017, June 12, 2017, June 13, 2017, June 14, 2017, June 16, 2017, June 19, 2017, June 20, 2017, June 22, 2017, June 27, 2017, June 30, 2017, July 18, 2017, August 24, 2017, and October 13, 2017, by the TCEQ's onsite observations, analyses of samples collected, and review of citizen collected evidence, it was determined that deposits of particulate matter (iron ore dust) from the La Quinta Plant were found in sufficient concentration and of such duration to interfere with normal use and enjoyment of property. Nuisance dust conditions were documented on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, July 19, 2017, September 8, 2017, and October 16, 2017.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 651649

30 TAC Chapter 101.20(3) 30 TAC Chapter 116.115(c) 5C THSC Chapter 382.085(b)

PERMIT 108113, PSDTX1344M1, Special Condition 17

Iron ore pellets shall be stored in enclosed storage.

Alleged Violation:

Investigation: 1415945

Comment Date: 09/26/2017

Failure to store iron ore pellets in enclosed storage. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside at the La Quinta Plant on February 17, 2017. The outside storage of iron ore pellets was verified during onsite sampling events on May 17, 2017 and May 24, 2017. As of June 6, 2017, Volestalpine Texas LLC had five outside storage piles containing iron ore pellets, Emission Point Numbers (EPNs) 45, 46, 56, 59, 60.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

Resolution: On June 6, 2017, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

Track No: 651654

30 TAC Chapter 116.110(a) 5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 1415945

Comment Date: 08/17/2017

Failure to obtain proper authorization. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside on February 17, 2017 and continued to store additional piles of fines, clusters, chips, sludge, and remet, EPNs 41 through 61, without obtaining authorization.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

Resolution: On June 6, 2017, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

Bryan W. Shaw, Ph.D., P.E., *Chairman*Toby Baker, *Commissioner*Jon Niermann, *Commissioner*Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 3, 2017

CERTIFIED MAIL #91 7199 9991 7038 1504 0215 RETURN RECEIPT REQUESTED

Mr. Helmut Schwarz Chief Technical Officer Voestalpine Texas LLC 2800 Kay Bailey Hutchison Road Portland, Texas 78374

Re: Notice of Enforcement for the Complaint Investigation at: La Quinta Plant, 2800 Kay Bailey Hutchison Road, Portland (San Patricio County), Texas Regulated Entity No.: 106597875; Investigation Nos.: 1415945, 1430244, and 1430249

Dear Mr. Schwarz:

On May 16, 2017 through October 16, 2017, Ms. Susan Hoelscher of the Texas Commission on Environmental Quality (TCEQ) Corpus Christi Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for air quality. During this investigation, certain alleged violations were documented. Enclosed is a copy of the investigation report and a summary which lists the investigation findings and recommended corrective actions. Additional recommended corrective actions may be provided by the Enforcement Division.

In the listing of the alleged violations we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at http://www.tceq.texas.gov for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Corpus Christi Regional Office at (361) 825-3100 or the Central Office Publications Ordering Team at (512) 239-0028.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violation.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

Mr. Helmut Schwarz Page 2 November 3, 2017

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable, but where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

Also, if you believe the violations documented in this notice have been cited in error **and** you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

Manager, Air Section Enforcement Division, MC 219 Re: Enforcement Meeting Request Texas Commission on Environmental Quality PO Box 13087 Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Ms. Hoelscher in the Corpus Christi Region Office at (361) 825-3100.

Sincerely,

Kelly Edward Ruble Air Section Manager

Corpus Christi Region Office

Texas Commission on Environmental Quality

KER/SMH/mjd

Enclosures: Investigation Report with Summary of Investigation Findings

cc: Ms. Shannon L. Parham, Environmental Manager, Voestalpine Texas LLC

Mr. Cade Mason, Staff Attorney, Voestalpine Texas LLC

Summary of Investigation Findings

LA QUINTA PLANT

Investigation #

1415945 Investigation Date: 05/16/2017

, SAN PATRICIO COUNTY,

Additional ID(s): GHGPSDTX43 PSDTX1344M1

> 108113 147082

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 651644

Compliance Due Date: To Be Determined

30 TAC Chapter 101.4

5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 1415945

Comment Date: 11/02/2017

Failure to prevent nuisance dust conditions. Specifically, Voestalpine Texas LLC failed to prevent a discharge from any source whatsoever one or more air contaminants or combinations thereof, in such concentration and of such duration as are or may tend to be injurious to or to adversely affect human health or welfare, animal life, vegetation, or property, or as to interfere with the normal use and enjoyment of animal life, vegetation, or property. Based upon a response to 141 citizen complaints received on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 21, 2017, May 22, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, May 31, 2017, June 2, 2017, June 5, 2017, June 7, 2017, June 8, 2017, June 12, 2017, June 13, 2017, June 14, 2017, June 16, 2017, June 19, 2017, June 20, 2017, June 22, 2017, June 27, 2017, June 30, 2017, July 18, 2017, August 24, 2017, and October 13, 2017, by the TCEQ's onsite observations, analyses of samples collected, and review of citizen collected evidence, it was determined that deposits of particulate matter (iron ore dust) from the La Quinta Plant were found in sufficient concentration and of such duration to interfere with normal use and enjoyment of property. Nuisance dust conditions were documented on May 16, 2017, May 17, 2017, May 18, 2017, May 19, 2017, May 20, 2017, May 23, 2017, May 24, 2017, May 25, 2017, May 26, 2017, May 30, 2017, June 2, 2017, June 5, 2017, June 8, 2017, June 13, 2017, June 15, 2017, June 23, 2017, June 30, 2017, July 13, 2017, July 19, 2017, September 8, 2017, and October 16, 2017.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 651649

30 TAC Chapter 101,20(3) 30 TAC Chapter 116.115(c) 5C THSC Chapter 382.085(b)

PERMIT 108113, PSDTX1344M1, Special Condition 17

Iron ore pellets shall be stored in enclosed storage.

Alleged Violation:

Investigation: 1415945

Comment Date: 09/26/2017

Failure to store iron ore pellets in enclosed storage. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside at the La Quinta Plant on February 17, 2017. The outside storage of iron ore pellets was verified during onsite sampling events on May 17, 2017

LA QUINTA PLANT

and May 24, 2017. As of June 6, 2017, Volestalpine Texas LLC had five outside storage piles containing iron ore pellets, Emission Point Numbers (EPNs) 45, 46, 56, 59, 60.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

Resolution: On June 6, 2017, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

Track No: 651654

30 TAC Chapter 116.110(a) 5C THSC Chapter 382.085(b)

Alleged Violation:

Investigation: 1415945

Comment Date: 08/17/2017

Failure to obtain proper authorization. Specifically, Voestalpine Texas LLC began storing iron ore pellets outside on February 17, 2017 and continued to store additional piles of fines, clusters, chips, sludge, and remet, EPNs 41 through 61, without obtaining authorization.

Recommended Corrective Action: Submit to the TCEQ Corpus Christi Office written corrective actions implemented to prevent a similar noncompliance in the future. Furthermore, comply with any requirement(s) that the TCEQ Enforcement Division specifies.

Resolution: On June 6, 2017, Voestalpine Texas LLC submitted a notification for a permit by rule (PBR) registration, Title 30 Texas Administrative Code (TAC) §106.261, to authorize emissions for the outdoor storage piles. There were 20 unauthorized storage piles, Emission Point Numbers (EPNs) 41-61, of iron ore pellets, fines, chips, sludge, and remet. On July 6, 2017, the PBR Registration No. 147082 was issued to the La Quinta Plant certifying the emissions of the outdoor storage piles under 30 TAC §106.261.

AIR CP_106597875_CP_20171016_Investigation_1430249_ Texas Commission on Environmental Quality Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

Customer: voestalpine Texas LLC Customer Number: CN604261545

Regulated Entity Name: LA QUINTA PLANT Regulated Entity Number: RN106597875

Investigation # 1430249	Incident Numbers	
	263318	258660
	260266	258764
	260594	259029
	258990	258765
	259825	260216
	259152	259692
	260419	259694
	259004	258992
	259842	259001
	260903	258968
	260218	260561
	258669	260253
	259693	259752
	267252	259742
	261418	261445
	258626	258648
	258996	259695
	260219	262147
	259150	260562
	270289	258969
	258763	

Investigator: SUSAN HOELSCHER

Site Classification PERMIT BY RULE

PREVENTION OF SIGNIFICANT DETERIORATION GREENHOUSE GAS PSD

CASE-BY-CASE

Conducted: 05/16/2017 -- 10/16/2017

NAIC Code: 331110 NAIC Code: 331111

SIC Code: 3312

Program(s): AIR NEW S

AIR NEW SOURCE PERMITS

Investigation Type: Data Maintenance File Review

Location: FROM CORPUS CHRISTI TAKE US-181N ONTO FM RD 136 AND GO APPROX 1.0 MI GO R ONTO LA QUINTA RD/PVT RD 87A AND THE SITE IS APPROX 2.0 MI DOWN ON R. IT IS BOUNDED ON THE E BY LA QUINTA RD AND THE S BY CORPUS

CHRISTI BAY

Additional ID(s):

GHGPSDTX43 PSDTX1344M1

108113 147082

LA QUINTA PLANT - CORPUS CHRISTI ETJ

5/16/2017 to 10/16/2017 Inv. # - 1430249

Page 2 of 3

, ,

Address:,

Local Unit:

Activity Type(s):

Principal(s):

Role

Name

RESPONDENT

VOESTALPINE TEXAS LLC

Contact(s):

Role	Title	Name	Phone	
REGULATED ENTITY CONTACT	PROCESS WATER COORDINATOR/ENVI RONMENTAL SPECIALIST	MR DOMINICK HERNANDEZ	Work	(361) 704-9000
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MS Shannon Parham	Cell Work Fax	(361) 229-2865 (361) 704-9000 (361) 704-9090
REGULATED ENTITY CONTACT	HEAD OF SAFETY, SECURITY & EMERGENCY	TIM VANLANDINGHAM	Fax Cell Work	(361) 704-9090 (361) 800-1669 (361) 704-9000
REGULATED ENTITY CONTACT	CHIEF TECHNICAL OFFICER	HELMUT SCHWARZ	Cell Work Fax	(361) 229-0760 (361) 704-9000 (361) 704-9090
PARTICIPATED IN	STAFF ATTORNEY	MR JESS ROBINSON	Phone	(512) 239-0455
PARTICIPATED IN	ATTORNEY AT LAW, OUTSIDE COUNSEL	MS LARA PRINGLE	Work Fax	(713) 437-1831 (713) 437-1924
PARTICIPATED IN	ATTORNEY AT LAW, OUTSIDE COUNSEL	MIKE CHERNEKOFF	Cell Fax Phone	(832) 260-5740 (504) 589-8264 (713) 437-1827

Other Staff Member(s):

Role

Name

QA Reviewer Supervisor CYNTHIA SMITH KELLY RUBLE

Associated Check List

Checklist Name

Unit Name

Investigation Comments:

Due to database limitations, three investigations, TCEQ Investigation Nos. 1415945 (Citizen 1-50), 1430244 (Citizen 51-100), and 1430249 (Citizen 101-141), were created to associate all incidents. Refer to TCEQ Investigation No. 1415945 for the complete report.

No Violations Associated to this Investigation

LA QUINTA PLANT - CORPUS CHRISTI ETJ

5/	16/	2017	to	10/	16	2017	Inv.	# -	14302	49
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Page 3 of 3

Signed Swen Helscher	Date 11/2/17
Environmental Investigator	-
Signed Kelly Luble Supervisor	Date _11 3/17
Attachments: (in order of final report sul	bmittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type) :	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	
Notice of Registration	

AIR CP_106597875_CP_20171016_Investigation_1430244_ Texas Commission on Environmental Quality Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

Customer: voestalpine Texas LLC Customer Number: CN604261545

Regulated Entity Name: LA QUINTA PLANT Regulated Entity Number: RN106597875

Investigation # 1430244	Incident Numbers	
	258479	258413
	258595	258475
	258546	258415
	258480	258203
	258418	258468
	258227	258472
	258420	258199
	258590	258421
	258570	258474
	258423	258553
	258405	258424
	258167	258476
	258554	258308
	258596	258581
	258470	258591
	258572	258223
	258408	258309
	258287	258482
	258473	258646
	258599	258200
	258575	258589
	258477	258557
*	258484	258471
	258565	258580
	258282	258485
Investigator: SUSAN HOELSCHER	Site Classification	PERMIT BY RULE
With the second of the second		PREVENTION OF
		SIGNIFICANT
		DETERIORATION
		GREENHOUSE GAS PSD
		CASE-BY-CASE
		CASE-BY-CASE
Conducted: 05/16/2017 10/16/2017	NAIC Code: 3311	10
,	NAIC Code: 3311	

NAIC Code: 331110 NAIC Code: 331111 SIC Code: 3312

Program(s):

AIR NEW SOURCE PERMITS

Investigation Type: Data Maintenance File Review

Location: FROM CORPUS CHRISTI TAKE US-181N ONTO FM RD 136 AND GO APPROX 1.0 MI GO R ONTO LA QUINTA RD/PVT RD 87A AND THE SITE IS APPROX 2.0 MI DOWN ON R. IT IS BOUNDED ON THE E BY LA QUINTA RD AND THE S BY CORPUS CHRISTI BAY

Additional ID(s):

GHGPSDTX43 PSDTX1344M1 108113

LA QUINTA PLANT - CORPUS CHRISTI ETJ

5/16/2017 to 10/16/2017 Inv. # - 1430244

Page 2 of 3

147082

Address:,

Local Unit:
Activity Type(s):

Principal(s):

Role

, ,

Name

RESPONDENT

VOESTALPINE TEXAS LLC

Contact(s):

Role	Title	Name	Phone	
PARTICIPATED IN	ATTORNEY AT LAW, OUTSIDE COUNSEL	MIKE CHERNEKOFF	Cell Phone Fax	(832) 260-5740 (713) 437-1827 (504) 589-8264
REGULATED ENTITY CONTACT	PROCESS WATER COORDINATOR/ENVI RONMENTAL SPECIALIST	MR DOMINICK HERNANDEZ	Work	(361) 704-9000
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MS Shannon Parham	Cell Fax Work	(361) 229-2865 (361) 704-9090 (361) 704-9000
REGULATED ENTITY CONTACT	HEAD OF SAFETY, SECURITY & EMERGENCY	TIM VANLANDINGHAM	Work Fax Cell	(361) 704-9000 (361) 704-9090 (361) 800-1669
PARTICIPATED IN	ATTORNEY AT LAW, OUTSIDE COUNSEL	MS LARA PRINGLE	Work Fax	(713) 437-1831 (713) 437-1924
REGULATED ENTITY CONTACT	CHIEF TECHNICAL OFFICER	HELMUT SCHWARZ	Cell Fax Work	(361) 229-0760 (361) 704-9090 (361) 704-9000
PARTICIPATED IN	STAFF ATTORNEY	MR JESS ROBINSON	Phone	(512) 239-0455

Other Staff Member(s):

Role

Name

Supervisor QA Reviewer KELLY RUBLE

CYNTHIA SMITH

Associated Check List

Checklist Name

Unit Name

Investigation Comments:

Due to database limitations, three investigations, TCEQ Investigation Nos. 1415945 (Citizen 1-50), 1430244 (Citizen 51-100), and 1430249 (Citizen 101-141), were created to associate all incidents. Refer to TCEQ Investigation No. 1415945 for the complete report.

No Violations Associated to this Investigation

LA QUINTA PLANT - CORPUS CHRISTI ETJ 5/16/2017 to 10/16/2017 Inv. # - 1430244

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Signed Sween Hollscher	Date
Environmental Investigator	
Signed Kelly Ruble Supervisor	Date <u>11/3/17</u>
Attachments: (in order of final report sub	mittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type) :	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify) :
Manifests	·
Notice of Registration	