National Aeronautics and Space Administration

Lyndon B. Johnson Space Center White Sands Test Facility P.O. Box 20 Las Cruces, NM 88004-0020



March 27, 2023

Reply to Attn of: RE-23-054

Ms. Melanie Sandoval New Mexico Environment Department Ground Water Quality Bureau 1190 S. St. Francis Dr. Santa Fe, NM 87502-5469

Subject: Notice of Intent to Discharge Groundwater at NASA-JSC White Sands Test Facility (WSTF) During Drilling of Monitoring Wells BLM-43, 600B-001-GW, and 600C-001-GW

NASA is providing the following Notices of Intent (NOIs) to obtain authorization to discharge drilling fluids (non-chlorinated groundwater and drilling mud or foam) to temporary earthen pits during well vadose zone drilling activities at WSTF. Enclosure 1 provides Ground Water Quality Bureau Notice of Intent to Discharge forms for each of the proposed discharge locations. Enclosure 2 provides maps that show the locations of the proposed groundwater monitoring wells at which these discharges are planned. Enclosure 3 provides baseline sampling analytical results from sampling performed at Well M.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

If you have any questions or comments concerning this submittal, please contact Michael Zigmond of my staff at 575–524–5484.

Sincerely,

TIMOTHY DAVIS



Timothy J. Davis Chief, Environmental Office

3 Enclosures

Enclosure 1



For Department use Only:

Agency Interest Number_	
PRD Assigned	

1. Name and mailing address of person proposing to discharge (Responsible Person):

Timothy J. Davis – Chief, Environmental Office	Work Phone: <u>575-524-5024</u>
NASA-JSC White Sands Test Facility	Cell/Home Phone: <u>N/A</u>
P. O. BOX 20	Fax: <u>575-527-5798</u>
Las Cruces, NM 88004	Email: <u>timothy.j.davis@nasa.gov</u>
2. Name and Position of person Completing Form:	
Phillip Bolen – Geologist	Work Phone: <u>575-524-5286</u>
NASA-JSC White Sands Test Facility	Cell/Home Phone: <u>N/A</u>
P.O. BOX 20	Fax: <u>575-527-5544</u>
Las Cruces, NM 88004	Email: <u>phillip.n.bolen@nasa.gov</u>
3. Name of facility:	

NASA-JSC White Sands Test Facility (WSTF)

4. Physical location of the discharge (if applicable, give street address, township, range, section, distance from closest town or landmark, directions to facility, location map):

The lined earthen pits (discharge location) will be constructed in the immediate vicinity of proposed groundwater monitoring well BLM-43. The proposed well is to be located approximately two and one-half miles northwest of the WSTF 100 Area in the NE ¼ of the NE ¼ of the NW ¼ of Section 33 Township 20S Range 03E. The new well will be located approximately 50 ft east of former groundwater monitoring well BLM-30. Maps indicating the proposed locations of the discharges are provided in Enclosure 2.

5. Type of operation generating the discharge (e.g., agricultural facility, domestic wastewater discharge, industrial discharge, mining operation, etc.):

The discharge of drilling fluids and cuttings will be generated during the vadose zone drilling of groundwater monitoring well BLM-43.

6. Source(s) of the discharge. Describe how the wastewater, sludge, or other discharges processed and/or disposed at your facility are generated. Identify all sources. Attach additional pages if needed:

An estimated total of 20,000 gallons (0.061 acre-feet) will be discharged. Up to 0.0036 acre-feet per day (1,200 gpd) of drilling fluids will be generated during vadose zone well drilling activities. The discharge is anticipated to occur between July 1, 2023 and March 31, 2024. Minor adjustments of the expected volume and dates may be required if unanticipated geological conditions are encountered, changes in well design are required, or if subcontractor schedule changes occur during drilling.

7. Expected contaminants in the discharge (e.g., nitrate-nitrogen, metals, organic compounds, salts, etc.) Include estimated concentration if known, and copies of results of laboratory analyses, if available:

No toxic pollutants, per 20.6.2.7.WW NMAC, or contaminants in exceedance of WQCC standards of 20.6.2 NMAC are expected to be encountered in the vadose zone or discharged at this location. This potable water added to the drilling mud or foam meets Primary Safe Drinking Water Act Standards and will be obtained from WSTF drinking water supply well K and/or well M. Baseline analytical results from sampling performed at well M (the newest supply well) are included in Enclosure 3. These results are consistent with those from past sampling performed at well K. Baseline results from well M sampling include two exceedances of

June 30, 2016



Ground Water Quality Bureau Notice of Intent to Discharge

For Department use Only:

Agency Interest Number_____ PRD Assigned _____

secondary maximum contaminant level (SMCL): sulfate at 320 mg/L (SMCL = 250 mg/L) and total dissolved solids at 747 mg/L (SMCL = 500 mg/L).

8. Describe all components of wastewater processing, treatment, storage, and disposal system (e.g., pretreatment units, impoundments(s), septic tank/leachfield, etc.). Include sizes, site layout map, plans, and specifications, etc. if available:

From ground surface to approximately 50 ft above the water table (estimated at 520 ft bgs), drilling foam or mud mixed with non-chlorinated potable WSTF site water will be discharged to one or more lined (10-mil plastic) earthen pit(s) on location. The pit(s) will be left in place. Water will be permitted to evaporate, and the pit(s) will be filled in with the originally excavated soil.

No discharge will occur from approximately 50 ft above the WSTF groundwater table to the total depth of the borehole. Development water, drill cuttings and fluids generated while drilling in the saturated zone are known to contain hazardous constituents. Therefore, all cuttings and fluids generated while drilling in the saturated zone will be accumulated in appropriately sized containers (e.g., covered roll-offs or Baker Tanks) and managed as hazardous waste.

9. Estimated maximum daily discharge volume in gallons per day. Provide water usage records or system sizing criteria if available:

Approximately 1,250 gallons per day with an estimated maximum of 20,000 gallons.

10. Estimated depth to ground water (ft): ~520 ft Source of information

Estimated based on last water level measurements taken from BLM-30 in 2018.

11. Current Total Dissolved Solids Concentration in Groundwater

The closest well with current TDS data is BLM-30, approximately 50 ft to the west @ 796 mg/L.

Signature:	TIMOTHY DAVIS Digitally signed by TIMOTHY DAVIS Date: 2023.03.27 13:35:40 -06'00'	Date:	See Electronic Signature	
Printed nam	e:Timothy J. Davis	Title:	Chief, Environmental Office	

Certification by Responsible Person

I, ______, hereby certify that the information and data submitted in this application are true and accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this _____ day of ______, ____, upon my oath or affirmation, before a notary of the State of

Please return this form to: NMED Ground Water Quality Bureau P.O. Box 5469 Santa Fe, New Mexico 87502-5469

Telephone: 505-827-2900 Fax: 505-827-2965

June 30, 2016



For Department use Only:

Agency Interest Number_	
PRD Assigned	

1. Name and mailing address of person proposing to discharge (Responsible Person):

Timothy J. Davis – Chief, Environmental Office	Work Phone: <u>575-524-5024</u>
NASA-JSC White Sands Test Facility	Cell/Home Phone: <u>N/A</u>
P. O. BOX 20	Fax: <u>575-527-5798</u>
Las Cruces, NM 88004	Email: <u>timothy.j.davis@nasa.gov</u>
2. Name and Position of person Completing Form:	
Phillip Bolen – Geologist	Work Phone: <u>575-524-5286</u>
NASA-JSC White Sands Test Facility	Cell/Home Phone: <u>N/A</u>
P.O. BOX 20	Fax: <u>575-527-5544</u>
Las Cruces, NM 88004	Email: <u>phillip.n.bolen@nasa.gov</u>
3. Name of facility:	

NASA-JSC White Sands Test Facility (WSTF)

4. Physical location of the discharge (if applicable, give street address, township, range, section, distance from closest town or landmark, directions to facility, location map):

The lined earthen pits (discharge location) will be constructed in the immediate vicinity of proposed groundwater monitoring well 600B-001-GW. The proposed well is to be located approximately one mile west of the WSTF 100 Area in the SW 1/4 SW 1/4 SW 1/4 Section 3, Township 21S, Range 3E. The new well will be located approximately 50 ft northwest of former groundwater monitoring well BLM-28. Maps indicating the proposed locations of the discharges are provided in Enclosure 2.

5. Type of operation generating the discharge (e.g., agricultural facility, domestic wastewater discharge, industrial discharge, mining operation, etc.):

The discharge of drilling fluids and cuttings will be generated during the vadose zone drilling of groundwater monitoring well 600B-001-GW.

6. Source(s) of the discharge. Describe how the wastewater, sludge, or other discharges processed and/or disposed at your facility are generated. Identify all sources. Attach additional pages if needed:

An estimated total of 20,000 gallons (0.061 acre-feet) will be discharged. Up to 0.0036 acre-feet per day (1,200 gpd) of drilling fluids will be generated during vadose zone well drilling activities. The discharge is anticipated to occur between July 1, 2023 and March 31, 2024. Minor adjustments of the stated volume and dates may be required if unanticipated geological conditions are encountered, changes in well design are required, or subcontractor schedule changes occur during drilling.

7. Expected contaminants in the discharge (e.g., nitrate-nitrogen, metals, organic compounds, salts, etc.) Include estimated concentration if known, and copies of results of laboratory analyses, if available:

No toxic pollutants, per 20.6.2.7.WW NMAC, or contaminants in exceedance of WQCC standards of 20.6.2 NMAC are expected to be encountered in the vadose zone or discharged at this location. The potable water added to the drilling mud or foam meets Primary Safe Drinking Water Act Standards and will be obtained from WSTF drinking water supply well K and/or well M. Baseline analytical results from sampling performed at well M (the newest WSTF supply well) are attached in Enclosure 3. These results are consistent with those from past sampling performed at well K. Baseline results from well M sampling include two exceedances of



Ground Water Quality Bureau Notice of Intent to Discharge

For Department use Only:

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secondary maximum contaminant levels (SMCLs): sulfate at 320 mg/L (SMCL = 250 mg/L) and total dissolved solids at 747 mg/L (SMCL = 500 mg/L).

8. Describe all components of wastewater processing, treatment, storage, and disposal system (e.g., pretreatment units, impoundments(s), septic tank/leachfield, etc.). Include sizes, site layout map, plans, and specifications, etc. if available:

From ground surface to approximately 20 ft above the water table (estimated at 338 ft bgs), drilling foam or mud mixed with non-chlorinated potable WSTF site water will be discharged to one or more lined (10-mil plastic) earthen pit(s) on location. The pit(s) will be left in place. Water will be permitted to evaporate, and the pit(s) will be filled in with the originally excavated soil.

No discharge will occur from the approximately 20 ft above the WSTF groundwater table to the total depth of the borehole. Development water, drill cuttings and fluids generated while drilling in the saturated zone could potentially contain hazardous constituents. Therefore, all cuttings and fluids generated while drilling in the saturated zone will be accumulated in appropriately sized containers (e.g., covered roll-offs or Baker Tanks) and managed as hazardous waste.

9. Estimated maximum daily discharge volume in gallons per day. Provide water usage records or system sizing criteria if available:

Approximately 1,250 gallons per day with an estimated maximum of 20,000 gallons.

10. Estimated depth to ground water (ft): <u>~338 ft</u> Source of information:

Estimated based on last water level measurements taken in 2022 at well BLM-28.

11. Current Total Dissolved Solids Concentration in Groundwater:

The closest well with current TDS data is BLM-28, approximately 50 ft to the northwest @ 1400-1870 mg/L.

Signature:	TIMOTHY DAVIS Digitally signed by TIMOTHY DAVIS Date: 2023.03.27 13:36:12 -06'00'	_ Date:	See Electronic Signature
Printed nam	ne: <u>Timothy J. Davis</u>	_ Title: _	Chief, Environmental Office
Certificatior	n by Responsible Person		

I, ______, hereby certify that the information and data submitted in this application are true and accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this _____ day of ______, ____, upon my oath or affirmation, before a notary of the State of

<u>Please return this form to:</u> NMED Ground Water Quality Bureau P.O. Box 5469 Santa Fe, New Mexico 87502-5469

Telephone: 505-827-2900 Fax: 505-827-2965



For Department use Only:

Agency Interest Number_	
PRD Assigned	

1. Name and mailing address of person proposing to discharge (Responsible Person):

Timothy J. Davis – Chief, Environmental Office	Work Phone: <u>575-524-5024</u>
NASA-JSC White Sands Test Facility	Cell/Home Phone: <u>N/A</u>
P. O. BOX 20	Fax: <u>575-527-5798</u>
Las Cruces, NM 88004	Email: <u>timothy.j.davis@nasa.gov</u>
2. Name and Position of person Completing Form:	
Phillip Bolen – Geologist	Work Phone: <u>575-524-5286</u>
NASA-JSC White Sands Test Facility	Cell/Home Phone: <u>N/A</u>
P.O. BOX 20	Fax: <u>575-527-5544</u>
Las Cruces, NM 88004	Email:phillip.n.bolen@nasa.gov
3. Name of facility:	

NASA-JSC White Sands Test Facility (WSTF)

4. Physical location of the discharge (if applicable, give street address, township, range, section, distance from closest town or landmark, directions to facility, location map):

The lined earthen pits (discharge location) will be constructed in the immediate vicinity of the proposed groundwater monitoring well 600C-001-GW. The proposed well is to be located approximately 2 miles west of the WSTF 100 Area in the SW 1/4 SW 1/4 SW 1/4 Section 4, Township 21S, Range 3E. The new well will be located approximately 50 ft east of existing groundwater monitoring well BLM-10-517. Maps indicating the proposed locations of the discharges are provided in Enclosure 2.

5. Type of operation generating the discharge (e.g., agricultural facility, domestic wastewater discharge, industrial discharge, mining operation, etc.):

The discharge of drilling fluids and cuttings will be generated during the vadose zone drilling of groundwater monitoring well 600C-001-GW.

6. Source(s) of the discharge. Describe how the wastewater, sludge, or other discharges processed and/or disposed at your facility are generated. Identify all sources. Attach additional pages if needed:

An estimated total of 20,000 gallons (0.061 acre-feet) will be discharged. Up to 0.0036 acre-feet per day (1,200 gpd) of drilling fluids will be generated during vadose zone well drilling activities. The discharge is anticipated to occur between July 1, 2023 and March 31, 2024. Minor adjustments of the expected volume and dates may be required if unanticipated geological conditions are encountered, changes in well design are required, or subcontractor schedule changes occur during drilling.

7. Expected contaminants in the discharge (e.g., nitrate-nitrogen, metals, organic compounds, salts, etc.) Include estimated concentration if known, and copies of results of laboratory analyses, if available:

No toxic pollutants, per 20.6.2.7.WW NMAC, or contaminants in exceedance of WQCC standards of 20.6.2 NMAC are expected to be encountered or discharged. This potable water added to the drilling mud or foam meets Primary Safe Drinking Water Act Standards and will be obtained from WSTF drinking water supply well K and /or well M. Baseline analytical results from sampling performed at well M (the newest supply well) are included in Enclosure 3. These results are consistent with those from past sampling performed at well K. Baseline results from well M sampling include two exceedances of secondary maximum contaminant level (SMCL): sulfate at 320 mg/L (SMCL = 250 mg/L) and total dissolved solids at 747 mg/L (SMCL = 500 mg/L).



Ground Water Quality Bureau Notice of Intent to Discharge

For Department use Only:

Agency Interest Number_____ PRD Assigned _____

8. Describe all components of wastewater processing, treatment, storage, and disposal system (e.g., pretreatment units, impoundments(s), septic tank/leachfield, etc.). Include sizes, site layout map, plans, and specifications, etc. if available:

From ground surface to approximately 20 ft above the water table (estimated at 497 ft bgs), drilling foam or mud mixed with non-chlorinated potable WSTF site water will be discharged to one or more lined (10-mil plastic) earthen pit(s) on location. The pit(s) will be left in place. Water will be permitted to evaporate, and the pit(s) will be filled in with the originally excavated soil.

No discharge will occur from approximately 50 ft above the WSTF groundwater table to the total depth of the borehole. Development water, drill cuttings, and fluids generated while drilling in the saturated zone, while not considered hazardous, will still be containerized and characterized before its disposal. Therefore, all cuttings and fluids generated while drilling in the saturated zone will be accumulated in appropriately sized containers (e.g., covered roll-offs or Baker Tanks) until the results of confirmation sampling are known.

9. Estimated maximum daily discharge volume in gallons per day. Provide water usage records or system sizing criteria if available:

Approximately 1,250 gallons per day with an estimated maximum of 20,000 gallons.

10. Estimated depth to ground water (ft): <u>~497 ft</u> Source of information:

Estimated based on last water level measurements taken in 2022 at BLM-10-517.

11. Current Total Dissolved Solids Concentration in Groundwater:

The closest well with current TDS data is BLM-10-517, approximately 50 ft to the west @ 774 mg/L.

Signature:	S Date: See Electronic Signature	_
Printed name: <u>Timothy J. Davis</u>	Title: <u>Chief, Environmental Office</u>	_
Certification by Responsible Person		
I,, hereby submitted in this application are true and accurate as possible, to expertise and experience.	y certify that the information and data o the best of my knowledge and profession	ıal
Signed this day of,, upon my oath or	r affirmation, before a notary of the State o	f

<u>Please return this form to:</u> NMED Ground Water Quality Bureau P.O. Box 5469 Santa Fe, New Mexico 87502-5469

Telephone: 505-827-2900 Fax: 505-827-2965 Enclosure 2







Enclosure 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

May 20, 2019

Brian Barrick NASA White Sands Test Facility P.O. Box 20 Las Cruces, NM 88004 TEL: (575) 524-5119 FAX

RE: NM3590607 NASA JSC White Sands Test Facility FF OrderNo.: 1904174

Dear Brian Barrick:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/3/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1904174

Date Reported: 5/20/2019

CLIENT: NASA White Sands Test Facility	acility Client Sample ID: Treatment Plant-1							
Project: NM3590607			Coll	ection I	Date: 4/2	/2019	8:31:00 AM	
Lab ID: 1904174-001	Matrix:	AQUEOUS	Ree	ceived l	Date: 4/3	8/2019	9 8:47:00 AM	
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed B	atch ID
EPA METHOD 504.1: EDB/DBCP							Analyst: CLP	
1,2-Dibromo-3-chloropropane	ND	0.0039	0.019		µg/L	1	4/11/2019 5:27:15 PM	44277
1,2-Dibromoethane	ND	0.0033	0.0095		µg/L	1	4/11/2019 5:27:15 PM	44277
EPA METHOD 300.0: ANIONS							Analyst: smb	
Fluoride	0.45	0.050	0.10		mg/L	1	4/24/2019 12:01:07 AM	R59387
Chloride	40	10	10		ma/L	20	4/24/2019 12:13:32 AM	R59387
Sulfate	320	1.1	10	*	ma/L	20	4/24/2019 12:13:32 AM	R59387
Nitrate+Nitrite as N	0.81	0.040	1.0	J	mg/L	5	4/24/2019 12:25:56 AM	R59387
PURGEABLE ORGANICS BY EPA 524					0		Analyst: DJF	
Benzene	ND	0.028	0.50		ua/l	1	4/5/2019 2:38:37 PM	W5896
Carbon tetrachloride	ND	0.045	0.50		ua/L	1	4/5/2019 2:38:37 PM	W5896
Chlorobenzene	ND	0.035	0.50		ua/L	1	4/5/2019 2:38:37 PM	W5896
cis-1.2-Dichloroethene	ND	0.036	0.50		ua/L	1	4/5/2019 2:38:37 PM	W5896
1.2-Dichlorobenzene	ND	0.057	0.50		ua/L	1	4/5/2019 2:38:37 PM	W5896
1.4-Dichlorobenzene	ND	0.043	0.50		µg/L	1	4/5/2019 2:38:37 PM	W5896
1.2-Dichloroethane	ND	0.034	0.50		µg/L	1	4/5/2019 2:38:37 PM	W5896
1,1-Dichloroethene	ND	0.035	0.50		µg/L	1	4/5/2019 2:38:37 PM	W5896
1,2-Dichloropropane	ND	0.062	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Ethylbenzene	ND	0.051	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Methylene chloride	ND	0.055	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Styrene	ND	0.050	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Tetrachloroethene	ND	0.028	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Toluene	ND	0.051	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
trans-1,2-Dichloroethene	ND	0.046	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
1,2,4-Trichlorobenzene	ND	0.060	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
1,1,1-Trichloroethane	ND	0.048	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
1,1,2-Trichloroethane	ND	0.068	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Trichloroethene	ND	0.049	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Vinyl chloride	ND	0.042	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Total Xylenes	ND	0.17	0.50		μg/L	1	4/5/2019 2:38:37 PM	W5896
Surr: 1,2-Dichlorobenzene-d4	113		70-130		%Rec	1	4/5/2019 2:38:37 PM	W5896
Surr: 4-Bromofluorobenzene	111		70-130		%Rec	1	4/5/2019 2:38:37 PM	W5896
525.2 SYNTHETIC ORGANICS							Analyst: Anat	
Di(2-Ethylhexyl)adipate	ND	0.200	0.200		µg/L	1	4/20/2019	R59993
Hexachlorocyclopentadiene	ND	0.100	0.100		µg/L	1	4/20/2019	R59993
Atrazine	ND	0.100	0.100		μg/L	1	4/20/2019	R59993
Alachlor	ND	0.200	0.200		μg/L	1	4/20/2019	R59993
Hexachlorobenzene	ND	0.100	0.100		μg/L	1	4/20/2019	R59993
Di(2-ethylhexyl)phthalate	ND	0.600	0.600		µg/L	1	4/20/2019	R59993

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range J

Analyte detected below quantitation limits Sample pH Not In Range

Р RL Reporting Limit

Page 1 of 14

Qualifiers:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1904174 Date Reported: 5/20/2019

CLIENT: NASA White Sands Test Fa	acility	ty Client Sample ID: Treatment Plant-1								
Project: NM3590607		Collection Date: 4/2/2019 8:31:00 AM								
Lab ID: 1904174-001	Matrix:	AQUEOUS	Re	ceived I	ceived Date: 4/3/2019 8:47:00 AM					
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	B	atch ID	
525.2 SYNTHETIC ORGANICS							Analyst:	Anat		
Benzo(a)pyrene	ND	0.0200	0.0200		µg/L	1	4/20/2019		R59993	
Simazine	ND	0.0700	0.0700		µg/L	1	4/20/2019		R59993	
EPA 531.2: CARBAMATES							Analyst:	Anat		
Carbofuran	ND	0.90	0.90		µg/L	1	4/9/2019		R59993	
Oxamyl	ND	2.0	2.0		µg/L	1	4/9/2019		R59993	
EPA 335.4: TOTAL CYANIDE SUBBE	D						Analyst:	Anat		
Cyanide	ND	0.0100	0.0100		mg/L	1	4/8/2019		R59993	
SM2120B: COLOR							Analyst:	Anat		
Color	ND @ pH 7.27	5.0	5.0		Color Uni	1	4/5/2019		R59993	
EPA 549.2: DIQUAT							Analyst:	Anat		
Diquat	ND	0.40	0.40		µg/L	1	4/8/2019		R59993	
EPA 548.1: ENDOTHALL							Analyst:	Anat		
Endothall	ND	9.0	9.0		µg/L	1	4/10/2019		R59993	
EPA 547: GLYPHOSATE							Analyst:	Anat		
Glyphosate	ND	5.0	5.0		µg/L	1	4/11/2019		R59993	
EPA 515.3 HERBICIDES							Analyst:	Anat		
2,4-D	ND	0.10	0.10		µg/L	1	4/25/2019		R59993	
2,4,5-TP (Silvex)	ND	0.20	0.20		μg/L	1	4/25/2019		R59993	
Dalapon	ND	1.0	1.0		µg/L	1	4/25/2019		R59993	
Dinoseb	ND	0.20	0.20		µg/L	1	4/25/2019		R59993	
Pentachlorophenol	ND	0.040	0.040		µg/L	1	4/25/2019		R59993	
Picloram	ND	0.10	0.10		µg/L	1	4/25/2019		R59993	
SM2150B: ODOR							Analyst:	Anat		
Odor	ND	1.0	1.0		TON	1	4/5/2019		R59993	
EPA 505: CHLORINATED PESTICIDE	S & PCBS						Analyst:	Anat		
Endrin	ND	0.010	0.010		µg/L	1	4/12/2019		R59993	
gamma-BHC	ND	0.020	0.020		µg/L	1	4/12/2019		R59993	
Methoxychlor	ND	0.10	0.10		µg/L	1	4/12/2019		R59993	
Toxaphene	ND	1.0	1.0		µg/L	1	4/12/2019		R59993	
Heptachlor	ND	0.040	0.040		µg/L	1	4/12/2019		R59993	
Heptachlor epoxide	ND	0.020	0.020		µg/L	1	4/12/2019		R59993	
Polychlorinated Biphenyls	ND	0.10	0.10		µg/L	1	4/12/2019		R59993	
Chlordane	ND	0.10	0.10		µg/L	1	4/12/2019		R59993	
SM5540C: SURFACTANTS							Analyst:	Anat		

SM5540C: SURFACTANTS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Qualifiers: Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits J

Р Sample pH Not In Range

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

H Holding times for preparation or analysis exceeded

RL Reporting Limit

Page 2 of 14

Analytical Report Lab Order 1904174

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/20/2019

CLIENT:	NASA White Sands Test Facility	Client Sample ID: Treatment Plant-1							
Project:	NM3590607		Collection Date: 4/2/2019 8:31:00 AM						
Lab ID:	1904174-001	Matrix: AQUEOUS Received Date: 4/3/2019 8:47:00 AM							
Analyses		Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM5540C:	SURFACTANTS					Analyst: Anat		at	
Surfactan	ts	ND	0.050	0.050	Н	mg/L	1	4/10/2019	R59993
SM4500-H	I+B / 9040C: PH							Analyst: JRI	R
рН		7.48			Н	pH units	1	4/4/2019 11:00:33 AM	A R58958
SM2540C	MOD: TOTAL DISSOLVED SOLIE	os						Analyst: KS	
Total Diss	solved Solids	747	20.0	20.0	*	mg/L	1	4/6/2019 1:10:00 PM	44108

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits J

Р Sample pH Not In Range

RL Reporting Limit

Page 3 of 14

Analytical Report

Lab Order 1904174

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/20/2019

CLIENT: NASA White Sands Test Facil	lity		Client	Sampl	e ID: Tr	eatmer	nt Plant-1	
Project: NM3590607			Coll	ection I	Date: 3/2	29/201	9 8:30:00 AM	
Lab ID: 1904174-002	Matrix:	AQUEOUS	Ree	ceived I	Date: 4/3	8/2019	8:47:00 AM	
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed H	Batch ID
EPA METHOD 200.7: METALS							Analyst: bcv	
Aluminum	ND	0.0011	0.020		mg/L	1	4/17/2019 8:52:56 PM	44097
Barium	0.027	0.00065	0.0020		mg/L	1	4/17/2019 8:52:56 PM	44097
Beryllium	ND	0.00028	0.0020		mg/L	1	4/17/2019 8:52:56 PM	44097
Cadmium	ND	0.00074	0.0020		mg/L	1	4/17/2019 8:52:56 PM	44097
Chromium	ND	0.0015	0.0060		mg/L	1	4/17/2019 8:52:56 PM	44097
Iron	0.81	0.0087	0.020	*	mg/L	1	4/17/2019 8:52:56 PM	44097
Manganese	0.0073	0.00029	0.0020		mg/L	1	4/17/2019 8:52:56 PM	44097
Nickel	ND	0.0040	0.010		mg/L	1	4/17/2019 8:52:56 PM	44097
Silver	0.0019	0.0014	0.0050	J	mg/L	1	4/17/2019 8:52:56 PM	44097
Zinc	0.016	0.0058	0.010		mg/L	1	4/17/2019 8:52:56 PM	44097
EPA 200.8: METALS							Analyst: DBK	
Antimony	ND	0.00028	0.0010		mg/L	1	4/9/2019 3:38:27 PM	44204
Arsenic	0.00076	0.00026	0.0010	J	mg/L	1	4/9/2019 3:38:27 PM	44204
Copper	0.069	0.0013	0.0050		mg/L	5	4/23/2019 1:36:25 PM	44204
Selenium	0.0020	0.00057	0.0010		mg/L	1	4/9/2019 3:38:27 PM	44204
Thallium	ND	0.00013	0.00050		mg/L	1	4/9/2019 3:38:27 PM	44204
Uranium	0.0097	0.000025	0.00050		mg/L	1	4/9/2019 3:38:27 PM	44204
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000038	0.00020		mg/L	1	4/18/2019 8:24:44 PM	44411
EPA 900.0: GROSS ALPHA							Analyst: PAC	
Gross Alpha	5.06	2.92	2.92		pCi/L	1	4/19/2019 8:17:00 AM	R59532
Gross Alpha precision (±)	2.09	2.92	2.92		pCi/L	1	4/19/2019 8:17:00 AM	R59532
Gross Beta	2.88	1.10	1.10		pCi/L	1	4/19/2019 8:17:00 AM	R59532
Gross Beta precision (±)	0.774	1.10	1.10		pCi/L	1	4/19/2019 8:17:00 AM	R59532
EPA 903.1: RA 226 AND EPA 904.0: RA	228-SUBBE	0					Analyst: PAC	
Radium-226	0.314	0.213	0.213		pCi/L	1	4/22/2019 11:44:00 PM	R59532
Radium-226 ±	0.308	0.213	0.213		pCi/L	1	4/22/2019 11:44:00 PM	R59532
Radium-228	0.366	0.852	0.852		pCi/L	1	4/19/2019 12:47:00 PM	R59532
Radium-228 ±	0.403	0.852	0.852		pCi/L	1	4/19/2019 12:47:00 PM	R59532

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits J

Р Sample pH Not In Range

RL Reporting Limit

Analytical Report

Lab Order 1904174

Date Reported: 5/20/2019

CLIENT: NASA White Sands Test Facility Project: NM3590607	y Client Sample ID: Trip Blank Collection Date:										
Lab ID: 1904174-003	Matrix:	8:47:00 AM									
Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed	Batch ID				
PURGEABLE ORGANICS BY EPA 524						Analyst: DJ	F				
Benzene	ND	0.028	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
Carbon tetrachloride	ND	0.045	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
Chlorobenzene	ND	0.035	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
cis-1,2-Dichloroethene	ND	0.036	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
1,2-Dichlorobenzene	ND	0.057	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
1,4-Dichlorobenzene	ND	0.043	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
1,2-Dichloroethane	ND	0.034	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
1,1-Dichloroethene	ND	0.035	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
1,2-Dichloropropane	ND	0.062	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Ethylbenzene	ND	0.051	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Methylene chloride	ND	0.055	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Styrene	ND	0.050	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Tetrachloroethene	ND	0.028	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Toluene	ND	0.051	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
trans-1,2-Dichloroethene	ND	0.046	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
1,2,4-Trichlorobenzene	ND	0.060	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
1,1,1-Trichloroethane	ND	0.048	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
1,1,2-Trichloroethane	ND	0.068	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Trichloroethene	ND	0.049	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Vinyl chloride	ND	0.042	0.50	μg/L	1	4/5/2019 3:06:10 PM	W5896				
Total Xylenes	ND	0.17	0.50	µg/L	1	4/5/2019 3:06:10 PM	W5896				
Surr: 1,2-Dichlorobenzene-d4	116	7	0-130	%Rec	1	4/5/2019 3:06:10 PM	W5896				
Surr: 4-Bromofluorobenzene	104	7	0-130	%Rec	1	4/5/2019 3:06:10 PM	W5896				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

D Sample Diluted Due to Matrix

Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Hall Environmental Analysis Laboratory, Inc.

В Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits J

Sample pH Not In Range Р

RL Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc

WO#:	1904174
	20-May-19

Client: Proiect:	NASA W NM3590	hite Sano 607	ds Test F	acility							
	ND 44004		T		Tas		DA 200 0- N				
Sample ID:	WIB-44204	Samp		SLN	Tes		PA 200.8: IV	letais			
Client ID:	PBW	Bat	ch ID: 44	204	F	RunNo: 5	9014				
Prep Date:	4/8/2019	Analysis	Date: 4/	9/2019	5	SeqNo: 1	985513	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony		ND	0.0010								
Arsenic		ND	0.0010								
Copper		ND	0.0010								
Selenium		ND	0.0010								
Thallium		ND	0.00050								
Uranium		ND	0.00050								
Sample ID:	MSLLLCS-44204	Samp	Type: LC	SLL	Tes	tCode: El	PA 200.8: N	letals			
Client ID:	BatchQC	Bat	ch ID: 44	204	F	RunNo: 5	9014				
Prep Date:	4/8/2019	Analysis	Date: 4/	9/2019	5	SeqNo: 1	985514	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony		0.00098	0.0010	0.001000	0	97.7	50	150			J
Arsenic		0.00076	0.0010	0.001000	0	75.9	50	150			J
Copper		0.00098	0.0010	0.001000	0	98.2	50	150			J
Selenium		0.00090	0.0010	0.001000	0	89.9	50	150			J
Thallium		0.00043	0.00050	0.0005000	0	86.6	50	150			J
Uranium		0.00049	0.00050	0.0005000	0	97.9	50	150			J
Sample ID:	MSLCS-44204	Samp	Type: LC	S	Tes	tCode: El	PA 200.8: N	letals			
Client ID:	LCSW	Bat	ch ID: 44	204	F	RunNo: 5	9014				
Prep Date:	4/8/2019	Analysis	Date: 4/	9/2019	5	SeqNo: 1	985515	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony		0.024	0.0010	0.02500	0	95.8	85	115			
Arsenic		0.023	0.0010	0.02500	0	93.2	85	115			
Copper		0.023	0.0010	0.02500	0	91.9	85	115			
Selenium		0.023	0.0010	0.02500	0	91.2	85	115			
Thallium		0.011	0.00050	0.01250	0	91.9	85	115			
Uranium		0.013	0.00050	0.01250	0	101	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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^{1 0}

Client:	NASA	White Sands Tes	t Facility							
Project:	INIM 53	90007								
Sample ID:	MB-44411	SampType:	MBLK	Tes	tCode: EF	PA Method	245.1: Mercu	ry		
Client ID:	PBW	Batch ID:	44411	F	RunNo: 5 9	9288				
Prep Date:	4/17/2019	Analysis Date:	4/18/2019	ç	SeqNo: 19	996307	Units: mg/L			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND 0.000	20							
Sample ID:	LCS-44411	SampType:	LCS	Tes	tCode: EF	PA Method	245.1: Mercu	ry		
Client ID:	LCSW	Batch ID:	44411	F	RunNo: 59	9288				
Prep Date:	4/17/2019	Analysis Date:	4/18/2019	S	SeqNo: 19	996308	Units: mg/L			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0049 0.000	20 0.005000	0	97.4	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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NASA White Sands Test Facility

NM3590607

-					

Sample ID: MB	SampT	ype: ME	BLK	Tes	estCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch	n ID: R5	9387	F	RunNo: 5 9	9387					
Prep Date:	Analysis Date: 4/23/2019			SeqNo: 2000629			Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	ND	0.10									
Chloride	ND	0.50									
Sulfate	ND	0.50									
Nitrate+Nitrite as N	ND	0.20									
Sample ID: LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	6			
Sample ID: LCS Client ID: LCSW	SampT Batch	ype: LC	S 9387	Tes F	tCode: El	PA Method 9387	300.0: Anion:	5			
Sample ID: LCS Client ID: LCSW Prep Date:	SampT Batch Analysis D	ype: LC 1 ID: R5 ate: 4/2	S 9387 23/2019	Tes F S	tCode: El RunNo: 59 SeqNo: 20	PA Method 9387 000631	300.0: Anion: Units: mg/L	5			
Sample ID: LCS Client ID: LCSW Prep Date: Analyte	SampT Batch Analysis D Result	ype: LC ID: R5 ate: 4/2 PQL	S 9387 23/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 59 SeqNo: 20 %REC	PA Method 9387 000631 LowLimit	300.0: Anion: Units: mg/L HighLimit	s %RPD	RPDLimit	Qual	
Sample ID: LCS Client ID: LCSW Prep Date: Analyte Fluoride	SampT Batch Analysis D Result 0.49	ype: LC n ID: R5 Date: 4/; PQL 0.10	S 9387 23/2019 SPK value 0.5000	Tes F S SPK Ref Val 0	tCode: El RunNo: 5 SeqNo: 2 %REC 98.1	PA Method 9387 000631 LowLimit 90	300.0: Anions Units: mg/L HighLimit 110	s %RPD	RPDLimit	Qual	
Sample ID: LCS Client ID: LCSW Prep Date: Analyte Fluoride Chloride	SampT Batch Analysis D Result 0.49 4.9	ype: LC n ID: R5 Date: 4/ PQL 0.10 0.50	S 9387 23/2019 SPK value 0.5000 5.000	Tes F S SPK Ref Val 0 0	tCode: El RunNo: 5 SeqNo: 2 %REC 98.1 97.4	PA Method 9387 000631 LowLimit 90 90	300.0: Anions Units: mg/L HighLimit 110 110	%RPD	RPDLimit	Qual	
Sample ID: LCS Client ID: LCSW Prep Date: Analyte Fluoride Chloride Sulfate	SampT Batch Analysis D Result 0.49 4.9 10	ype: LC n ID: R5 Date: 4/: PQL 0.10 0.50 0.50	S 9387 23/2019 SPK value 0.5000 5.000 10.00	Tes F SPK Ref Val 0 0 0 0	tCode: El RunNo: 5 SeqNo: 2 %REC 98.1 97.4 101	PA Method 9387 000631 LowLimit 90 90 90	300.0: Anion: Units: mg/L <u>HighLimit</u> 110 110 110	%RPD	RPDLimit	Qual	

Qualifiers:

Client: Project:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

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RL Reporting Limit

Client: Project:	NASA NM35	White Sands 90607	s Test F	acility							
Sample ID: MI	B-44277	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	504.1: EDB/D	BCP		
Client ID: PE	зw	Batch	n ID: 442	277	F	RunNo: 5	9112				
Prep Date: 4	/11/2019	Analysis D	ate: 4/	11/2019	S	SeqNo: 1	989856	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chlo	propropane	ND	0.020								
1,2-Dibromoethane	e	ND	0.010								
Sample ID: LC	CS-44277	SampT	ype: LC	S	Tes	tCode: E	PA Method	504.1: EDB/D	BCP		
Client ID: LC	CSW	Batch	n ID: 442	277	F	RunNo: 5	9112				
Prep Date: 4	/11/2019	Analysis D	ate: 4/	11/2019	S	SeqNo: 1	989857	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chlo	propropane	0.11	0.020	0.1000	0	110	70	130			
1,2-Dibromoethane	9	0.11	0.010	0.1000	0	106	70	130			

Qualifiers:

_

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#:	1904174
	20-May-19

Client: NASA White Sands Test Facility **Project:**

NM3590607

Sample ID: rb	SampType: MBLK TestCode: PURGEABLE ORGANICS by EPA 524									
Client ID: PBW	Batcl	n ID: W	58964	F	RunNo: 5	8964				
Prep Date:	Analysis D	Date: 4/	5/2019	S	SeqNo: 1	983627	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2-Dichloropropane	ND	0.50								
Ethylbenzene	ND	0.50								
Methylene chloride	ND	0.50								
Styrene	ND	0.50								
Tetrachloroethene	ND	0.50								
Toluene	ND	0.50								
trans-1,2-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,1,1-Trichloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
Trichloroethene	ND	0.50								
Vinyl chloride	ND	0.50								
Total Xylenes	ND	0.50								
Surr: 1,2-Dichlorobenzene-d4	2.3		2.000		114	70	130			
Surr: 4-Bromofluorobenzene	2.2		2.000		108	70	130			
Sample ID: 62.5ng ccv_lcs	SampT	ype: LC	S	Tes	tCode: Pl	URGEABLE	ORGANICS I	oy EPA 52	4	
Client ID: LCSW	Batcl	n ID: W	58964	F	RunNo: 5	8964				
Prep Date:	Analysis D	Date: 4/	5/2019	S	SeqNo: 1	983630	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.4	0.50	2.500	0	94.6	70	130			
Carbon tetrachloride	2.4	0.50	2.500	0	97.6	70	130			
Chlorobenzene	2.5	0.50	2.500	0	99.3	70	130			
cis-1,2-Dichloroethene	2.5	0.50	2.500	0	98.7	70	130			
1,2-Dichlorobenzene	2.5	0.50	2.500	0	101	70	130			
1,4-Dichlorobenzene	2.4	0.50	2.500	0	96.6	70	130			
1,2-Dichloroethane	2.4	0.50	2.500	0	95.9	70	130			
1,1-Dichloroethene	2.3	0.50	2.500	0	93.0	70	130			
1,2-Dichloropropane	2.6	0.50	2.500	0	103	70	130			

Qualifiers:

Ethylbenzene

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

2.5

0.50

2.500

В Analyte detected in the associated Method Blank

101

70

130

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

0

NASA White Sands Test Facility **Client:**

Project:

NM3590607

Sample ID: 62.5ng ccv_lcs	SampT	S	Tes	ORGANICS	by EPA 52	24				
Client ID: LCSW	Batch	n ID: WS	58964	F	8964					
Prep Date:	Analysis D	ate: 4/	5/2019	S	SeqNo: 1	983630	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride	2.6	0.50	2.500	0	102	70	130			
Styrene	2.2	0.50	2.500	0	88.6	70	130			
Tetrachloroethene	2.4	0.50	2.500	0	96.8	70	130			
Toluene	2.5	0.50	2.500	0	99.4	70	130			
trans-1,2-Dichloroethene	2.4	0.50	2.500	0	96.7	70	130			
1,2,4-Trichlorobenzene	2.5	0.50	2.500	0	100	70	130			
1,1,1-Trichloroethane	2.4	0.50	2.500	0	95.8	70	130			
1,1,2-Trichloroethane	2.6	0.50	2.500	0	103	70	130			
Trichloroethene	2.3	0.50	2.500	0	92.8	70	130			
Vinyl chloride	2.4	0.50	2.500	0	95.9	70	130			
Total Xylenes	7.8	0.50	7.500	0	104	70	130			
Surr: 1,2-Dichlorobenzene-d4	2.2		2.000		112	70	130			
Surr: 4-Bromofluorobenzene	2.1		2.000		106	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е
- Р

Value above quantitation range

- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL Reporting Limit

1904174 20-May-19

WO#:

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Client:	NASA White Sands Test Facility
Project:	NM3590607

Sample ID: MB-R59532	SampT	ype: ME	BLK	Tes	tCode: El	PA 900.0: G	ross Alpha			
Client ID: PBW	Batch	n ID: R5	9532	F	RunNo: 5	9532				
Prep Date:	Analysis D	ate: 4/	19/2019	5	SeqNo: 2	007855	Units: pCi/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gross Alpha	0.263	2.03								
Gross Alpha precision (±)	0.833	2.03								
Gross Beta	-0.098	1.88								
Gross Beta precision (±)	0.754	1.88								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Qual

Client: Project:	NASA V NM3590	White Sands 0607	Test F	acility						
Sample ID: MB-R	59532	SampT	ype: ME	BLK	Tes	tCode: El	PA 903.1: R	a 226 and EP	A 904.0:	Ra 228-Subbed
Client ID: PBW		Batch	n ID: R5	9532	F	lunNo: 5	9532			
Prep Date:		Analysis D	ate: 4/	22/2019	5	eqNo: 2	007854	Units: pCi/L		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Radium-226		0.212	0.520							
Radium-226 ±		0.323	0.520							

Radium-228 -0.0681 0.816 Radium-228 ± 0.343 0.816

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- Reporting Limit RL

Page 13 of 14

Client: Project:	N N	ASA White Sau	nds Test l	Facility							
Sample ID:	MB-4410	8 San	рТуре: М	BLK	Tes	tCode: SN	M2540C MC	DD: Total Diss	olved So	lids	
Client ID:	PBW	Ba	tch ID: 44	1108	F	RunNo: 58	3944				
Prep Date:	4/4/2019	Analysi	s Date: 4	/6/2019	S	SeqNo: 19	982159	Units: mg/L			
Analyte		Resul	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved	d Solids	ND	20.0								
Sample ID:	LCS-441)8 Sam	pType: L	cs	Tes	tCode: SN	M2540C MC	DD: Total Diss	olved So	lids	
Client ID:	LCSW	Ba	tch ID: 44	1108	F	RunNo: 58	3944				
Prep Date:	4/4/2019	Analysi	s Date: 4	/6/2019	S	SeqNo: 19	982160	Units: mg/L			
Analyte		Resul	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved	d Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.halleuvironmental.com

Sample Log-In Check List

NASA mg 5	120/19	201. 190	11/4			Replino: 1
Received By: Yazmine Garduno	4/3/2019 8:47:00 AI	м		rkyninels	(hauti	
Completed By: Victoria Zellar	4/3/2019 10:39:54 A	AM		Victoria	Collas	R
Reviewed By: DAD 4/3/1	9				,,	Twin 4-3-19
Chain of Custody						1000 1 201
1. Is Chain of Custody complete?		Yes	~	No		Not Present
How was the sample delivered?		Fedl	<u>Ex</u>			
Log In						
Was an attempt made to cool the samp	ples?	Yes	✓	No [NA 🗌
Were all samples received at a tempera	ature of >0° C to 6.0°C	Yes	V	No		
5. Sample(s) in proper container(s)?		Yes	~	No [į.	
6. Sufficient sample volume for indicated t	esl(s)?	Yes	V	No		
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes	~	No		
8. Was preservative added to bottles?		Yes		No 🕅	1	NA 🗌
9. VOA vials have zero headspace?		Yes	\checkmark	No 🗌	No	VOA Vials VV2
0. Were any sample containers received b	proken?	Yes		No S	2	4/3/19
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody	n	Yes	✓	No 🗌	bol for	pH: (6 /1 /12 unless no
2, Are matrices correctly identified on Cha	in of Custody?	Yes	~	No	1	Adjusted? No
3. Is it clear what analyses were requested	1?	Yes	~	No 🗌	1	
 Were all holding times able to be met? (If no. notify customer for authorization.) 		Yes	~	No 🗌		Checked by: Jum 4-3
pecial Handling (if applicable)						
15. Was client notified of all discrepancies	with this order?	Yes		No [NA 🔽
Person Notified: By Whom: Regarding: Client Instructions:	Date: Via:	eMa	il 🗌 P	hone 🗌 F	ax 🗌 I	In Person

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Request ID	Here						AN	ALYTICAL REQUEST cession # Here
190402	0234	One Form Per Sample	9				One Form Per Samp	no 1904174-001
LAB USE >>>		DATE <<< TIME		SAMPLE TEMPERAT	URE (deg C):	2.2	·C FI	ield preservation confirmed
ONLY		STAMP		Sample Priority (If 1 or	2 call lab):		Preserved to pH <	2 at Lab Date/Initial:
SUBMITTER	CODE (3-dig	jit):	LAB REM	MARKS:		_		
O 55000 (DV	VB-SDWA -	fee-for-service)	O 5542	0 (DWB-non-reg. contami	inants) o 640	00 (Indi	vidual client	THER 55001
NMED AREA	OFFICE: 1	as Cruces	s	AMPLER NAME: Richa	rd Mirabal	Tee	SAMPLE CONTA	CT: 575.640.5137
WATER SYST	TEM ID: NM	3590607	N	ATER SYSTEM NAME:	NASA ISC W	HITE	SANDS TEST	ACILITY - EE
FACILITY/LOO	CATION: TR	EATMENT PLA	NT #1 (Bo	oster #1) FACILITY ID: 9	0607005		SAMPLING PC	NOT ENTRY POINT (SP90607005
FIELD DATA	Non-chlo	rinated Ch	lorinated	Residual (mg/l):	pH:	Condu	ictivity	Temperature
REMARKS	Field remar	ks:				Tuesch	<i>ŋ.</i>	(deg. c).
SAMPLING DOCUMENTA		AED monitoring	■Con ■Grab s	npliance Confirmation	Composite	Des	cribe:	
SAMPLE TYP		n-filtered Wate	r DFil	itered water	widkolid	Des	cribe:	¥3
Analysis Reque	La C6 ested:	b to acidify H8O6 acid add VOA (EPA 52	added to pH >= 12 Acidified at Lab □M 24.2)	Other a2S2O3	Des	cribe:	<u>U</u>
Additional Anal	lytical Reque	ists:						
CHAIN OI	FCUST	ODY						
UST BE FILL	ED OUT FO	R ALL COMP	LIANCE S	AMPLES				
ample was collected By:	Print Name	0	Si	gnature	Sampler	/ r ID #	Date of Collectio	on Time of Collection
	Richa	ard Mira	bal /	un Mal	062	97	040219	0834
	Sample	Evidentiary S	ieals -	Not Present	Present & Int	act	Present & D	amaged
laced in	Print Name	e of Carrier	Tn	acking Number / Bill of I	Lading		Date	Time
are or:	F.I.	0 E		740 0104 7	a av		MWDD/YY	HHMM (24 HR)
	Sample	Evidentian S	727	1767-0607-J	Derecont & Int	at	9-2-19	70-0°
Relinquished	Print Name	of Relinquish	er Sig	gnature of Relinquisher		aut	Date	Time
iy:	-						MM/DD/YY	HHMM (24 HR)
	Sample	Evidentiary S	eals -	Not Present	Present & Int	act	Present & D	amaged
O BE FILLED	OUT BY LA	BORATORY	ERSONN	IEL ONLY				
elinquished y:	Print Name	of Receiver	Sig	gnature of Receiver			Date MM/DD/YY	Time HHMM (24 HR)
	Yan	ine bar	anni	yme	1		04/03/1	x 0947
	Sample	Evidentiary S	eals -	Not Present	Present & Int	act	Present & D	amaged
comments:					r.			
Comments:	_							

190402	Here 0043					ANAL Acces	YTICAL REQUEST sion # Here
1904020	Per Sample	e				One Form Per Sample	1904174-001
LÁB	DATE	s	AMPLE TEMPERA	TURE (deg C):	130	Field	preservation confirmed
ONLY	STAMP	s	ample Priority (If 1 o	or 2 call lab):	Prese	rved to pH < 2 at	Lab Date/Initial:
SUBMITTER C	ODE (3-digit):	LAB REMAR	KS:				
O 55000 (DW	B-SDWA - fee-for-service)	O 55420 (D	WB-non-reg. contan	ninants) O 640	000 (Individua) fee-for-se	I client ervice) OTH	ER 55001
NMED AREA C	FFICE: Las Cruces	SAMP	LER NAME: Rich	ard Mirabal	SAM	PLE CONTACT:	575-640-5137
WATER SYSTE	EM ID: NM3590607	WATE	R SYSTEM NAME	NASAJSC W	HITE SAN	DS TEST FAC	CILITY - FF
FACILITY/LOC	ATION: TREATMENT PLA	NT #1 (Booster	#1) FACILITY ID:	90607005	S	AMPLING POINT	Entry Point (SP906070051
FIELD DATA]Non-chlorinated Ch	lorinated Resi	dual (mg/l):	рН:	Conductivity (uS/cm):	/ Te (de	mperature eg. C):
REMARKS	Field remarks:						
SAMPLING DOCUMENTAT	TION	g	nce Confirmation	n ∏Composite ance ∏Other	Describe.		
SAMPLE TYPE	□Non-filtered Wate □Raw water	r ☐Filtered]Finished wate	d water br ⊡Otherein/k	iquid/solid	Describe:		
FRESERVATIO	None ⊡Stored □Lab to acidity □C6H8O6 acid add	Shipped at < 4 □NaOH addi led □Acid	IC □HCladded ed to pH >= 12 whed at Lab □N	to pH <= 2 □Other Ia2S2O3]HNO3 addec Describe:	1 to pH <=2 □	H2SO4 added to pH <= 2
Analysis Reque:	sted: Surfact	ants (SM5540	C); Corrosivity (EPA	9045D); TDS (5	SM2540 C (M	od.)); pH (SM450	0-H+ B/EPA 9040C); Cont'o
Additional Analy	tical Requests EPA	300.0 (F. N	02 NO3 Nit	rate+Nitrite	CI SO4)		
			PLES				
Sample was	Print Name	Signat	ure	Sample	r/ Dat	e of Collection	Time of Collection
Collected By:	Richard Mira	bal Re	will-bl	Operato 082	or ID # MM/ 197 /st	Ini 10	HHMM (24 HR)
	Sample Evidentiany 9	Soale -	Not Procent	Descent P In	UY	Brossent & Dam	10090,001
Placed in	Print Name of Carrier	Tracki	ng Number / Bill of	esent a m	Dat	Present & Dam	Time
Care of:			g think of the life of	coonig	MM/	DD/YY	HHMM (24 HR)
4	Federal Expres	5 74	69-0684-	2024		4-2-19	10:50
Dellasudated	Sample Evidentiary S	Seals -	Not Present	Present & In	tact	Present & Dam	aged
y: seinguisnea	Print Name of Relinquist	ier Signat	ure of Relioquishe	r	Dat. MM/	e DD/YY	Time HHMM (24 HR)
	Sample Evidentiary S	Seals -	Not Present	Present & In	tact 🗌	Present & Dam	aged
O BE FILLED	OUT BY LABORATORY	PERSONNEL	ONLY				
Relinquished) by:	Print Name of Receiver	Signat	ure of Receiver		Date MM/	e DD/YY	Time HHMM (24 HR)
	Yazmine Ba	rauni	LAMB		D	4/03/16	DAMA
	Tor mint on		In all the state	1		10011	1 10 11
Commenter	Sample Evidentiary S	Beals -	Not Present	Present & Int	tact 🗌	Present & Dama	aged
Comments:	Sample Evidentiary S	Seals - 🗌]Not Present	Present & Ini	tact 🗌	Present & Dama	aged

Request ID) Here					ANAL	YTICAL REQUEST sion # Here
190402	20832	One Form Per Sample				One Form Per Sample	1904174.00
LAB USE >>>	D	ATE << TIME	SAMPLE TEMPERA	ATURE (deg C):	1.3.6	Field	preservation confirmed
ONLY	S	TAMP	Sample Priority (If 1	or 2 call lab):	Pres	erved to pH < 2 a	Lab Date/Initial:
SUBMITTER (CODE (3 digit)	LAB	REMARKS:		1 2010		
O 55000 (DV	VB-SDWA - fee	o-for-service) O	55420 (DWB-non-reg. conta	aminants) O 640	00 (Individua fee-for-s	al client	ER 55001
NMED AREA	OFFICE: Las	Cruces	SAMPLER NAME: Rich	hard Mirabal	SAN	IPLE CONTACT:	575-640-5137
WATER SYST	TEM ID: NM3	590607	WATER SYSTEM NAME	E NASAJSC W	HITE SAN	NDS TEST FA	CILITY - FF
FACILITY/LOC	CATION: Trea	tment Plant #1 (Booster #1) FACILITY ID:	90607005	5	SAMPLING POIN	Entry Point (SP90607005
FIELD DATA AND	Non-chlorin	ated 🛛 🔳 Chlorina	ted Residual (mg/l):	pH:	Conductivit (uS/cm):	ty Te	emperature eq. C):
REMARKS	Field remarks	5					
SAMPLING		D monitoring			Describe	P.	
DOCUMENTA		with facility	rab sample Won-comp	Mance CCther			
SAMPLE TYP	E DMond	Silarad Water	Eilleard weter		Describe	, ·	
		water INFinit	shed water	ninuidaalla	2635/106		
PRESERVATI	ON Differen						
	Lab to	o acidify □N	aOH added to pH >= 12	□ Other	Describe	o to pri <=2	Ph2SO4 added to pH <= 2
	C6H8	06 acid added	Acidified at Lab	Na2S2O3	100001100	°	
		Server and the William of St	State of the second	10.000 Marte			
Analysis Reque	ested:	Nitrate + I	Nitrite backup (EPA 1	300.0)			
Analysis Requi	ested: Micsl Recuert	Nitrate + I	Nitrite, backup (EPA 3	300.0)			
Analysis Requi	ested: lytical Requests	Nitrate + I	Nitrite, backup (EPA 3	300.0)			
Analysis Requi Additional Anal CHAIN OF	ested: lytical Requests F CUSTOI	Nitrate + I	Nitrite, backup (EPA 3	300.0)			
Analysis Requi Additional Anal CHAIN OF MUST BE FILL Bample was	ested: lytical Requests F CUSTOI _ED OUT FOR Print Name	Nitrate + I s. DY . ALL COMPLIAN	Nitrite, backup (EPA 3	300.0) Semular			
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name	Nitrate + I s. DY ALL COMPLIAN	Nitrite, backup (EPA 3	Sampler	/ Da	te of Collection	Time of Collection HHMM (24 HR)
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Sample was Collected By:	ested: F CUSTOI ED OUT FOR Print Name Richar		Nitrite, backup (EPA 3 CE SAMPLES Signature	Sampler Operator 082	/ Da rID# MM 97 C	te of Collection	Time of Collection HHMM (24 HR) O 23 Z
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By:	ested: F CUSTON ED OUT FOR Print Name Richar Sample E	Nitrate + I	Nitrite, backup (EPA : CE SAMPLES Signature I Zurad M-ch - □Not Present	300.0) Sampler Operato 082 □Present & Int	/ Da 1D# MM 97 C act C	te of Collection NDD/YY 040219] Present & Dam	Time of Collection HHMM (24 HR) O & Z aged
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By: Placed in Sere of	ested: F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name o	Nitrate + I S. DY ALL COMPLIAN TO Miraba videntiary Seals of Carrier	Nitrite, backup (EPA 3	Sampler Operator Present & Int of Lading	/ Da rID# MM 97 act Da	te of Collection VDDYY 940219] Present & Dam te	Time of Collection HHMM (24 HR) O C 3 Z aged Time
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By: Placed in Care of:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name o	Nitrate + I S. DY ALL COMPLIAN C Miraba Widentiary Seals of Carrier	Nitrite, backup (EPA 3	Sampler Sampler Operator 082 Deresent & Int of Lading	/ Da nD# mm 97 C act Da Mm	te of Collection VDDYY 940219] Present & Dam te VDDYY	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR)
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By: Placed In Care of:	ested: Total Requests F CUSTON ED OUT FOR Print Name Richar Sample E Print Name o Fed or 62	Nitrate + 1 S. DY ALL COMPLIAN TO Miraba videntiary Seals of Carrier E+p1755	Nitrite, backup (EPA 3	Sampler Operator Present & Int of Lading	/ Da rID# MM 97 0 act 0 Da MM	te of Collection VDDYY 940219] Present & Dam te WDDYY 4-2-19	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR) 10:50
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By: Placed In Care of:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name of Feder C Sample E	Nitrate + I Nitrate + I Nitrate + I Nitrate + I Nitrate + I ALL COMPLIAN Of Miraba Videntiary Seals Videntiary Seals Videntiary Seals	Nitrite, backup (EPA : CE SAMPLES Signature Il Zurad Mach - □Not Present Tracking Number / Bill of 7469-0684 - □Not Present	Sampler Operato 082 Present & Int of Lading 00.0)	/ Da 1D# MM 97 C act Da Bact Da	te of Collection VDDryy 940219 Present & Dam te VDDryy 4-2-19 Present & Dam	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR) 10.'50 aged
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished by:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name o Feder & Sample E Print Name o	Nitrate + I Nitrate + I Nitrate + I Nitrate + I Nitrate + I ALL COMPLIAN Of Miraba Videntiary Seals of Carrier Exp 5755 Videntiary Seals of Relinquisher	Nitrite, backup (EPA 3	Sampler Operator Oper	/ Da rID# MM act act act act Da MM	te of Collection NDDYY 940219 Present & Dam te NDDYY 4-2-19 Present & Dam te NDDYY	Time of Collection HHMM (24 HR) 0 23 Z aged Time HHMM (24 HR) 10.'50 aged Time HHMM (24 HR)
Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By: Placed in Care of: Relinquished by:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name o Feder 62 Sample E Print Name o	Nitrate + I	Nitrite, backup (EPA 3	300.0) Sampler Operator 082 □ Present & Int of Lading 	/ Da rID# MM act Da act Da act Da MM	te of Collection NDDYY 940219 Present & Dam te NDDYY 4-2-19 Present & Dam te NDDYY	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR) 10.'50 aged Time HHMM (24 HR)
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Analysis Requi Additional Anal CHAIN Of MUST BE FILL Bample was Collected By: Placed In Care of: Relinquished by:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name o Feder 62 Sample E Print Name o Sample E	Nitrate + I Nitrate + I Nitra	Nitrite, backup (EPA : CE SAMPLES Signature Il Zurul Maach - Not Present Tracking Number / Bill of 7469-0684 - Not Present Signature of Relinquish - Not Present Signature of Relinquish - Not Present Signature of Relinquish - Not Present	300.0) Sampler Operator 082 □ Present & Int of Lading . 20 2 4 □ Present & Int er	/ Da rID# MM act act act ba mM mm act	te of Collection NDDYY 940219 Present & Dam te NDDYY 4-2-19 Present & Dam te NDDYY	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR) 10:50 aged Time HHMM (24 HR)
Analysis Requi Additional Anal CHAIN OI MUST BE FILL Bample was Collected By: Placed in Care of: Relinquished by: TO BE FILLED Relinquished by:	ested: ytical Requests F CUSTOI ED OUT FOR Print Name Richar Sample E Print Name o Sample E Print Name o Sample E OUT BY LAB	Nitrate + I Nitrate + I Nitra	Nitrite, backup (EPA : CE SAMPLES Signature I Zurad March - Not Present Tracking Number / Bill of 7469-0684- Signature of Relinquish Signature of Relinquish ONNEL ONLY Signature of Receiver	300.0) Sampler Operato 082 Present & Int of Lading 	/ Da ID# MM 97 C act Da act Da act Da act Da	te of Collection VDD/YY 940219 Present & Dam te WDD/YY 97-2-19 Present & Dam te WDD/YY Present & Dam te WDD/YY	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR) I 0 : 5 T aged Time HHMM (24 HR) aged
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Analysis Requi Additional Anal CHAIN OI MUST BE FILL Bample was Collected By: Placed in Care of: Relinquished by: CO BE FILLED Relinquished by:	ested: ytical Requests F CUSTON ED OUT FOR Print Name Richar Sample E Print Name o Sample E Print Name o Sample E OUT BY LAB Print Name o YUMNY Sample E	Nitrate + 1	Nitrite, backup (EPA : CE SAMPLES Signature I Zurad Machael - □Not Present Tracking Number / Bill of 7469-0684 - □Not Present Signature of Relinquish - □Not Present Signature of Relinquish - □Not Present Signature of Relinquish - □Not Present ONNEL ONLY Signature of Receiver □Not Present	300.0) Sampler Operato 082 Present & Int of Lading 062 4 Present & Int er	/ Da ID # MM 97 C act C Da act Da act C MM act C Da MM	te of Collection VDD/YY 940219 Present & Dam te WDD/YY Present & Dam te WDD/YY Present & Dam te VDD/YY Present & Dam	Time of Collection HHMM (24 HR) O C 3 Z aged Time HHMM (24 HR) IO 5 D aged Time HHMM (24 HR) Bged Time HHMM (24 HR) C C U aged
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Sold Y STAMP Sample Priority (If 1 or 2 call lab): Preserved to pH < 2 at Lab	LAB		DATE		SAMPLE TEMPER	ATURE (ieg C): 7.3	· C Field	preservation confirmed
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PRESERVATION Wore Stored Shipped at < 4 C	SAMPLE TYP	E Nor	n-filtered Wate w water 🛛 👔	r □F]Finishee	iltered water d water ⊡Other al	r/liquid/so	Des	cribe:	
vnalysis Requested: SOC1: EDB, DCBP, 123TCP (EPA 504.1); Glyphosate (EPA 547); Pesticide/PCB (EPA 4ddilional Analytical Requests: CHAIN OF CUSTODY RUST BE FILLED OUT FOR ALL COMPLIANCE SAMPLES iample was Print Name Sollected By: Richard Mirabal Additional Analytical Requests: Date of Collection Sample Evidentiary Seals - Not Present Print Name of Carrier Tracking Number / Bill of Lading Vaccod in arrier Tracking Number / Bill of Lading Barple Evidentiary Seals - Not Present Print Name of Carrier Tracking Number / Bill of Lading Barple Evidentiary Seals - Not Present Sample Evidentiary Seals - Not Present Bilinguished Print Name of Relinguisher Signature of Relinguisher Present & Intact <td< td=""><td>RESERVATI</td><td></td><td>ne ⊡Stored to acidify H8O6 acid add</td><td>Shipped NaOł led [</td><td>at < 4 C ☐HCladde Iadded topH>= 12]Acidified at Lab []</td><td>d to pH < □Oth Na2S2O</td><td>= 2 ☐HNO3 8 er Des 3</td><td>edded to pH <=2</td><td>]H2SO4 added to pH <= 2</td></td<>	RESERVATI		ne ⊡Stored to acidify H8O6 acid add	Shipped NaOł led [at < 4 C ☐HCladde Iadded topH>= 12]Acidified at Lab []	d to pH < □Oth Na2S2O	= 2 ☐HNO3 8 er Des 3	edded to pH <=2]H2SO4 added to pH <= 2
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LAB	DATE	SAM	IPLE TEMPERA	TURE (de	C): 12	· C Field	preservation confirmed
ONLY	STAMP	San	ple Priority (If 1	or 2 call lai	»: □	Preserved to pH < 2 a	t Lab Date/Initial:
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O 55000 (DW	/B-SDWA - fee-for-service) O 55420 (DWE	3-non-reg. contai	minants) (o 64000 (Indi fee-	vidual client for-service)	ER 55001
NMED AREA	OFFICE: Las Cruces	SAMPLE	R NAME: Rich	ard Miral	bal	SAMPLE CONTACT:	575-640-5137
WATER SYST	EM ID: NM3590607	WATER	SYSTEM NAME	NASAJ	SC WHITE	SANDS TEST FA	CILITY - FF
FACILITY/LOC	ATION: TREATMENT PL	ANT #1 (Booster #1) FACILITY ID:	9060700)5	SAMPLING POIN	T Entry Point (SP90607005
FIELD DATA	Non-chlorinated	hlorinaled Residu	al (mg/l):	pH:	Condu (uS/cn	notivity Tr n): (o	emperature leg. C):
REMARKS	Field remarks:						
SAMPLING DOCUMENTA	TION	g Compliance	Confirmatio	n 🗌 Com ïance 🔲 (posite Des Other	cribe:	
SAMPLE TYPE	E Non-filtered Wat	er ⊡Filtered w ∎Finished water	vater ∏Other ain	Niquid/solid	Des	cribe:	0
PRESERVATIO	ON None Stored Lab to acidify C6H8O6 acid ad	i Shipped at < 4 C □NaOH added Ided □Acidifie	⊟HCIadded topH>= 12 datLab ■	to pH <= 2 Other Na2S2O3	? □HNO3 a Des	edded to pH <=2]H2SO4 added to pH <= 2
Analysis Reque	ested: SOC	2: Carbamate	s (EPA 531.)	2)			
Additional Anal	vtical Requests			-,			
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Sample was	Print Name	Signatur	0	s	ampler /	Date of Collection	Time of Collection
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O BE FILLED	OUT BY LABORATORY	PERSONNEL ON	ILY				
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	Sample Evidentian	(MATE	MM	A	t R Intest	04/03/14	0847
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O 55000 (DV	VB-SDWA - fee-	for-service)	5542	0 (DWB-non-reg. con	taminants)	O ⁶⁴⁰⁰⁰	(Indiv fee-	vidual client for-service)	OTH	ER 55001	
NMED AREA	OFFICE: Las (Cruces	S	AMPLER NAME: Rid	chard Mi	rabal		SAMPLE CO	NTACT:	575-640-5137	
WATER SYST	EM ID: NM35	90607	W	ATER SYSTEM NAM	E: NAS	AJSC WH	ITE S	SANDS TE	ST FAC	CILITY - FF	
FACILITY/LO	CATION: TREAT	MENT PLANT	#1 (Boo	oster#1) FACILITY II	D: 90607	005		SAMPLIN	IG POIN	T Entry Point (SP9060	70051
FIELD DATA	Non-chlorina	ted 🔳 Chlor	inated I	Residual (mg/l):	pH:		Condu uS/cm	ctivity 1):	Te (d	emperature leg. C):	
REMARKS	Field remarks:										
SAMPLING DOCUMENTA) monitoring with facility	∎Con ∎Grab s	apliance ⊡Confirma ample ⊡Non-com	tion ⊡C npliance	omposite ⊡Other	Des	cribe:			
SAMPLE TYP	E Non-fil Raw w	ltered Water vater 🔲 F	∏Fil Finished	tered water water ⊡Other s	air/liquid/sc	olid	Des	cribe:			
PRESERVAT	ON None	Stored SI	ioped a	t < 4 C □HCI add	ed to pH <	= 2 DH	NO3 a	added to pH	=2 [H2SO4 added to pH	<= 2
	Lab to	acidify [06 acid added]NaOH	added to pH >= 12 Acidified at Leb [■Oth Na2S2C	er 03	Des	cribe: Na Sul	fite		
Analysis Requ	ested:	SOC3	Organ	ic Compounds	back-up	(EPA 5	25 2)	(i.			
dditional Ana	utical Requests				anon ab	1=	,				_
CHAIN O MUST BE FILI Sample was Collected By:	F CUSTOD	DY ALL COMPLI	ANCE S	AMPLES gnature		Sampler /	ID #	Date of Co	liection	Time of Collection	on
	Richard	d Mirak	al /	<		0829	7	OYUZ	19	0838	
	Sample Ev	identiary Se	als -	Not Present	Pres	sent & Inta	ct	Preser	t & Dam	aged	
laced in Care of:	Print Name of	Carrier	Tr	acking Number / Bil	l of Lading	9		Date MM/DD/YY		Time HHMM (24 HR)	
	Federal	ELONISS		7469-068	4- 20,	24		4-2-1	9	10:50	
	Sample Ev	identiary Se	als -	Not Present	Pres	sent & Inta	ct	Preser	t & Dam	aged	
Relinquished xy:	Print Name of	Relioquishe	r Si	gnature of Relipquis	her		-	Date MW/DD/YY		Time HHMM (24 HR)	
	Sample Ev	ridentiary Se	als -	Not Present	Pres	sent & Inta	ct	Preser	it & Dam	aged	
O BE FILLED	OUT BY LABO	DRATORY PE	RSON	EL ONLY							
Relinquished sy:	Print Name of	Receiver	Si	gnature of Receiver				Date MWDD/YY		Time HHVM (24 HR)	
	JOT NUM IS	, OW UN	w]0	your	1			04/03	5/19	DSUT	
	Sample Ev	identiary Se	als -	Not Present	Pres	sent & Inta	ct	Preser	it & Dam	aged	
Comments:											
Commente											

Second Second Second	Here						ANA	ession # Here
190402	0839	One Form Per Sample	2				One Form Per Sampl	0 1904174-00
LAB USE >>>	[DATE		SAMPLE TEMPER	RATURE (deg	c): 2.3	C Fie	d preservation confirmed
ONLY	5	STAMP		Sample Priority (If	1 or 2 call lab)	: 🗆	Preserved to pH < 2	at Lab Date/Initial:
SUBMITTER (CODE (3 digit):	LAB REI	MARKS:				
O 55000 (DV	VB-SDWA - 1e	e-for-service)	O 5542	0 (DWB-non-reg. con	taminants) O	64000 (Indi fee	-for-service) O1	THER 55001
NMED AREA	OFFICE: Las	s Cruces	s	AMPLER NAME: Ri	chard Mirab	al	SAMPLE CONTAC	T: 575-640-5137
WATER SYST	TEM ID: NM3	3590607	V	VATER SYSTEM NAM	ME: NASAJS	C WHITE	SANDS TEST F	ACILITY - FF
FACILITY/LOG	CATION: TRE	ATMENT PLA	NT #1 (Bo	oster#1) FACILITY I	D: 9060700	5	SAMPLING POI	INT Entry Point (SP906070051)
FIELD DATA AND	Non-chlori	nated 🔳 Chl	lorinated	Residual (mg/l):	pH:	Condu (uS/cr	uctivity n):	Temperature (deg. C):
REMARKS	Field remarks	s:						
SAMPLING DOCUMENTA		ED monitoring t with facility	Grab :	npliance Confirma sample Non-con	tion ⊡Comp npliance ⊡O	osite Des ther	scribe:	
SAMPLE TYP	E Non Rav	-filtered Water v water 🛛 🔳	r □Fi]]Finished	itered water I water ⊡Other a	air/liquid/solid	Des	scribe:	
nalysis Regu	Lab C6H	to acidify 1806 acid add		added to pH >= 12 Acidified at Lab	Other Na2S2O3	Des	scribe: Na Sulfite	
and the second sec				nic (Compounde /	EDA 525 2	v		
Indditional Apal	lutical Recue	0004	. Orgai	nic Compounds (EPA 525.2)		
dditional Anal	lytical Reques	its:	i. Orgai	nic Compounds (EPA 525.2)		
dditional Anal	lytical Reques	DDY		nic Compounds (EPA 525.2)		
dditional Anal	lytical Reques	DDY R ALL COMPI		SAMPLES	EPA 525.2)	Date of Collection	n Time of Collection
Additional Anal CHAIN OI IUST BE FILL Cample was Collected By:	International Reques	DDY RALL COMPI		SAMPLES	(EPA 525.2 Sau Op	mpler / erator ID #	Date of Collection	n Time of Collection HHMM (24 HR)
Additional Anal CHAIN OI AUST BE FILL Sample was Collected By:	International Request F CUSTO LED OUT FOR Print Name Richa	rd Mira		SAMPLES	(EPA 525.2 Sai) mpler / erator ID # 08297	Date of Collection MWDDryy 090219	n Time of Collection HHMM (24 HR) 0839
Additional Anal CHAIN OI IUST BE FILL Cample was collocted By:	lytical Reques F CUSTO LED OUT FOR Print Name Richa Sample	rd Mira		SAMPLES	EPA 525.2) erator ID # 08297 & Intact	Date of Collection MM/DD/YY DY0219 □ Present & Da	n Time of Collection HHMM (24 HR) 0은3 위 umaged
Additional Anal CHAIN OI TUST BE FILL Collected By: Placed in Care of:	International Print Name	rd Mira	LIANCE S Sibal	SAMPLES Ignature	EPA 525.2) mpler / erator ID # 08297 & Intact	Date of Collection MWDD/YY D Y U 2 1 9 Present & Date MWDD/YY	n Time of Collection HHMM (24 HR) 0839 Imaged Time HHMM (24 HR)
Additional Anal CHAIN OI IUST BE FILL Cample was collocted By:	Int Name Fint Name Richa Sample Frint Name	ISOUR	LIANCE S Ibal	SAMPLES	EPA 525.2) erator ID # 08297 & Intact	Date of Collection MW/DD/YY DY UZ19 Present & Da Date MW/DD/YY 4-2-19	n Time of Collection HHMM (24 HR) 0839 amaged Time HHMM (24 HR) 10150
Additional Anal CHAIN OI TUST BE FILL ample was collected By: Placed in care of:	International Second	rd Mira	LIANCE S Ibal Seals - Ti Seals -	SAMPLES	EPA 525.2) erator ID # 08297 & Intact & Intact	Date of Collection MWDD/YY 0 Y 0 2 1 9 Present & Da Date MWDD/YY Y-2-19 Present & Da	n Time of Collection HHMM (24 HR) 0839 Time HHMM (24 HR) 10'50 timaged
Additional Anal CHAIN OI MUST BE FILL Sample was collected By: Placed in care of: care of:	International Sector	TC Mira Evidentiary S of Carrier Evidentiary S of Relinquist	LIANCE S Ibal Seals - Tr Seals - Tree Si	SAMPLES	EPA 525.2) erator ID # 08297 & Intact & Intact	Date of Collection MW/DD/YY 0 Y 0 2 1 9 Present & Da Date MW/DD/YY Y - 2 - 1 9 Present & Da Date MW/DD/YY	n Time of Collection HHMM (24 HR) 0939 Time HHMM (24 HR) 10'50 timaged Time HHMM (24 HR)
Additional Anal CHAIN OI IUST BE FILL Cample was collected By: Placed in care of: collected in care of:	International Semple	ISOUR IS	LIANCE S Ibal A Beals - Tri Beals - Tree Si Beals -	SAMPLES Ignature Not Present racking Number / Bil 7 1/6 9- 0 6 8 4- Not Present Ignature of Relinquis	EPA 525.2) mpler / erator ID # 08297 & Intact & Intact	Date of Collection MW/DD/YY D Y U 2 1 9 Present & Da Date MW/DD/YY 4-2-19 Present & Da Date MW/DD/YY	n Time of Collection HHMM (24 HR) 0839 Imaged Time HHMM (24 HR) 10'50 Imaged Time HHMM (24 HR)
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Additional Anal CHAIN OI UST BE FILL ample was collected By: laced in care of: collected in care of: collected in care of: collected in care of: collected in care of:	International Semple	The second secon	LIANCE S Seals - Ti Seals - Ther Si Seals - PERSON	SAMPLES	EPA 525.2) erator ID # 08297 & Intact & Intact & Intact	Date of Collection MW/DD/YY 0 Y 0 2 1 9 Present & Da Date MW/DD/YY 4-2-19 Present & Da Date MW/DD/YY Present & Da	n Time of Collection HHMM (24 HR) 0839 maged Time HHMM (24 HR) 10'50 maged Time HHMM (24 HR) maged
Additional Anal CHAIN OI IUST BE FILL Sample was Collected By: Placed in Care of: Collected In Collected In C	International Semple	Contraction of Receiver	LIANCE S Seals - Ti Seals - Tree Si Seals - PERSON Si Lives	SAMPLES	EPA 525.2) erator ID # 08297 & Intact & Intact & Intact	Date of Collection MWDD/YY D Y U 2 1 9 Present & Da Date MWDD/YY 4-2-19 Present & Da Date MWDD/YY Present & Da	n Time of Collection HHMM (24 HR) 0839 maged Time HHMM (24 HR) 10'50 maged Time HHMM (24 HR) maged
Additional Anal CHAIN OI MUST BE FILL Sample was collected By: Placed in care of: telinquished y: O BE FILLED telinquished y:	International Semple	Contraction of Relinquist Street Processing Stre	LIANCE S Seals - Ther Si Seals - PERSON Si VIVIS Seals -	SAMPLES	EPA 525.2) mpler / erator ID # 08297 & Intact & Intact & Intact	Date of Collection MW/DD/YY D Y U 2 1 9 Present & Da Date MW/DD/YY Present & Da Date MW/DD/YY Present & Da Date MW/DD/YY Date MW/DD/YY Date MW/DD/YY Date MW/DD/YY	n Time of Collection HHMM (24 HR) 0839 maged Time HHMM (24 HR) 10'50 maged Time HHMM (24 HR) maged

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MANUN	0240	One Form				One Form	$\frac{1}{2} \frac{1}{2} \frac{1}$
LAB		DATE				Per oam	pre [[909]+9-
USE >>>		<< TIME	SAMPLE TE	EMPERATURE (deg C): 7	5°C F	ield preservation confirmed
ONLT		2 IANIE	Sample Price	ority (If 1 or 2 call	lab):	Preserved to pH <	2 at Lab Date/Initial:
SUBMITTER O	CODE (3-digit):	LAB REMARKS:				
O 55000 (DW	VB-SDWA - fe	e-for-service)	O 55420 (DWB-non-re	eg. contaminants)	0 ^{64000 (III}	ee-for-service) © C	OTHER 55001
NMED AREA	OFFICE: Las	s Cruces	SAMPLER NAM	E: Richard Mi	rabal	SAMPLE CONTAG	CT: 575-640-5137
WATER SYST	EM ID: NM3	3590607	WATER SYSTE	M NAME: NAS	AJSC WHIT	E SANDS TEST F	FACILITY - FF
FACILITY/LOC	CATION: TREA	ATMENT PLAN	T #1 (Booster #1) FACI	LITY ID: 90607	005	SAMPLING PC	DINT ENTRY POINT (SP9060700)
FIELD DATA	Non-chlori	nated 🔳 Chlo	rinated Residual (mg/l)	: pH:	Con	ductivity	Temperature
REMARKS	Field remarks				(us.	(cm):	(deg. C):
SAMPLING	Field remarks	a.					
DOCUMENTA	TION DAME	ED monitaring	Compliance Co	nfirmation C	omposite D	lescribe:	
		t with facility [■Grab sample □No	on-compliance	Other		
SAMPLE TYPI	E Non	-filtered Water	Filtered water		D	lescribe:	
	Raw	water	Finished water	Other air/liquid/so	olid		
PRESERVATI	ON Non	e Stored S	hipped at $< 4 \text{C}$ $\square H$	CI added to pH <	= 2 DHNC	3 added to pH <=2	\square H2SO4 added to pH <= 2
	□Lab	to acidify [NaOH added to pH >	= 12 🗌 Oth	ner D	escribe:	
		1806 acid adde	d Acidified at Lat	Na2S2C	33		
Analusia Dogu	noted:	0000					
Analysis Reque	saleu.	5005	Herb Sub (EPA 5	(15.3); Endot	hall (EPA 5	48.1)	
Additional Anal	vlical Reques	5005: ts:	Herb Sub (EPA 5	515.3); Endot	hall (EPA 5	48.1)	
Additional Anal	ylical Reques	ts:	Herb Sub (EPA 5	i15.3); Endot	hall (EPA 5	48.1)	
Additional Anal CHAIN OF MUST BE FILL	ylical Reques	IS: DDY RALL COMPLI	Herb Sub (EPA 5	i15.3); Endoti	hall (EPA 5	48.1)	
Additional Anal CHAIN OI MUST BE FILL Sample was	ylical Reques F CUSTO ED OUT FOR Print Name	DDY RALL COMPLI	Herb Sub (EPA 5	i15.3); Endoti	hall (EPA 5	48.1) Date of Collection	on Time of Collection
Anaiysis Requi Additional Anal CHAIN OI MUST BE FILL Sample was Collected By:	F CUSTO	ISUCS:	Herb Sub (EPA 5	15.3); Endoti	Sampler /	48.1) Date of Collection	on Time of Collection HHMM (24 HR)
Analysis Requi Additional Anal CHAIN OI MUST BE FILL Sample was Collected By:	Print Name	The source of th	Herb Sub (EPA 5	i15.3); Endoti	Sampler / Operator ID a 08297	48.1) Date of Collection # MM/DD/YY のイロス 19	on Time of Collection HHMM (24 HR)) の
Analysis Reque Additional Anal CHAIN OI MUST BE FILL Sample was Collected By:	Print Name Richa Sample	rd Miral	Herb Sub (EPA 5	i15.3); Endoti sentPres	Sampler / Operator ID a 08297 sent & Intact	48.1) Date of Collection # MM/DD/YY ロソロフ I 何 □ Present & D	on Time of Collection HHMM (24 HR) ひ
Analysis Requi Additional Anal CHAIN OF MUST BE FILL Sample was Collected By: Placed in	Print Name Print Name	ISOUS: IS: PDY RALL COMPLI RALL COMPLI RALL COMPLI	Herb Sub (EPA 5	sent Pres	Sampler / Operator ID a 08297 sent & Intact 9	48.1) Date of Collection MM/DD/YY ロソロフ I イ 口 Present & D Date	on Time of Collection HHMM (24 HR)) のおくつ Damaged Time
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Additional Anal CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of:	Print Name Federos	rd Miral Evidentiary Se of Carrier	Herb Sub (EPA 5	IS.3); Endoti I Sent □Pres or / Bill of Lading 8 Y-202 Y	Sampler / Operator ID s 08297 sent & Intact 9	48.1) Date of Collection MM/DD/YY ○ ∀ ♡ Z 19 □ Present & D Date MM/DD/YY ↓-2-19	on Time of Collection HHMM (24 HR)) 0840 Damaged Time HHMM (24 HR) 10:50
Additional Anal CHAIN OI MUST BE FILL Sample was Collected By: Placed in Care of:	Print Name Print Name Print Name Print Name Fint Name	ISOUS: IS: PDY RALL COMPLI RALL COMPLI RALL COMPLI COMPLIANCE Evidentiary Se Evidentiary Se	Herb Sub (EPA 5	Sent Present Present Present Present Strand Present Strand Present Pre	Sampler / Operator ID a 05297 sent & Intact g	48.1) # Date of Collection # MM/DD/YY ○ \rightarrow 7 0 2 1 9 □ Present & D Date MM/DD/YY ↓	on Time of Collection HHMM (24 HR) D 84 O Damaged Time HHMM (24 HR) 10:50 Damaged
Analysis (Veque Additional Anal CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished	Print Name Print Name Print Name Print Name Print Name Federos Sample Print Name	ALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI	Herb Sub (EPA 5 Signature Oal Zund Pals - Not Pres Tracking Number 9 7469-06 Pals - Not Pres 9 7469-06	Sent Pres	Sampler / Operator ID a 08297 sent & Intact g sent & Intact	48.1) Date of Collection # MM/DD/YY O ∀ O Z I G Date MM/DD/YY <u>4.2-19</u> □ Present & D Date MM/DD/YY	on Time of Collection HHMM (24 HR) 7 0840 Damaged Time HHMM (24 HR) 70.50 Damaged
Analysis Reque Additional Anal CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished Sy:	Print Name	ALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI RALL COMPLI	Herb Sub (EPA 5 Signature Oal Zee Mot Pres Tracking Number 9 7469-06 eals - Not Pres 9 7469-06 eals - Not Pres 9 7469-06	ISONT Pres	Sampler / Operator ID s 08297 sent & Intact g	48.1) Date of Collection MM/DD/YY ○ ∀ ♡ Z 19 □ Present & D Date MM/DD/YY ↓-2-19 □ Present & D Date MM/DD/YY	on Time of Collection HHMM (24 HR)) 0840 Damaged Time HHMM (24 HR) Joist Damaged Time HHMM (24 HR)
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	Here							A	CCESS	TICAL REQUEST
190402	084/	One Form Per Sample	2					One Fo Per Sa	mple	1904174-0
LAB			s	AMPLE TEMPE	RATURE ((deg C): 7	20		Field p	reservation confirmed
ONLY		STAMP	s	ample Priority (If	f 1 or 2 call	l lab):	P	reserved to pH	< 2 at l	Lab Date/Initial:
SUBMITTER C	ODE (3-digit	I):	LAB REMAR	KS:						
O 55000 (DW	B-SDWA - fe	e-for-service)	O 55420 (D	WB-non-reg. cor	ntaminants)) o ⁶⁴⁰⁰	0 (Indiv fee-f	idual client for-service)	OTHE	^R 55001
NMED AREA C	DFFICE: La	s Cruces	SAMP	LER NAME: RI	ichard Mi	irabal	5	SAMPLE CONT	ACT:	575-640-5137
WATER SYST	EM ID: NM	3590607	WATE	R SYSTEM NAM	ME NAS	AJSC WH	HITE S	SANDS TEST	FAC	ILITY - FF
FACILITY/LOC	ATION: TRE	ATMENT PLAN	NT #1 (Booster	#1) FACILITY I	D: 90607	7005		SAMPLING	POINT	ENTRY POINT (SP80607005
FIELD DATA AND	Non-chlori	ineted IChl	orinated Resi	dual (mg/l):	pH:	-	Conduc (uS/cm)	tivity):	Ten (de	nperature g. C):
REMARKS	Field remark	s:								
SAMPLING DOCUMENTA		ED monitoring t with facility	Grab samp	nce Confirma	ation C mpliance	Composite	Desc	nibe:		£.
SAMPLE TYPE		-filtered Water	r □Filtered ■Finished wate	d water er ∏Other i	air/liquid/sc	olid	Desc	nibe:		
Analysis Reque	C6P	1806 acid add	led Acid	ified at Lab	Na2S2C	D3	Desc	ribe:		
and the stadue		3000	Diquat (E	PA 549.2)						
Additional Analy	tical Reques	its:	: Diquat (E	PA 549.2)					. A.	
Additional Analy	Viical Reques	DDY	LIANCE SAM	PA 549.2)						
Additional Analy CHAIN OF MUST BE FILLI Sample was	viical Reques	DDY R ALL COMPI	LIANCE SAM	PLES		Sampler	,	Date of Collec	tion	Time of Collection
Additional Analy CHAIN OF MUST BE FILLI Sample was Collected By:	CUSTC ED OUT FOR Print Name Richa			PA 549.2) PLES ure	0	Sampler Operator 0829	/ ID # 7	Date of Collec	tion	Time of Collection HHMM (24 HR)
Additional Analy CHAIN OF NUST BE FILL Sample was Collected By:	Vical Reques			PA 549.2) PLES JURE	2	Sampler Operator 0829	/ ID # 7	Date of Collec MW/DD/YY のくしてし	tion	Time of Collection HHMM (24 HR) 024 /
Additional Analy CHAIN OF MUST BE FILL Sample was Collected By:	rical Reques CUSTC ED OUT FOI Print Name Richa Sample	R ALL COMPI	LIANCE SAMI Signat	PA 549.2) PLES ure /////		Sampler Operator 0829 sent & Inta	/ ID # 7 nct	Date of Collec MW/DD/YY のくりっとり 口 Present 8	tion G Dama	Time of Collection HHMM (24 HR) 024 / ged
Additional Analy CHAIN OF MUST BE FILL Sample was collected By: Placed in care of:	rtical Reques CUSTC ED OUT FOI Print Name Richa Sample Print Name	R ALL COMPI ard Mira Evidentiary S of Carrier	LIANCE SAMI Signat Ibal 2 Seals - E	PA 549.2) PLES ure / / / (]Not Present ng Number / Bil	Pre-	Sampler Operator 0829 sent & Inta 9	/ ID# 7 nct	Date of Collect MW/DD/YY 04021 Present 8 Date MW/DD/YY	ction G Dama	Time of Collection HHMM (24 HR) 024 ged Time HHMM (24 HR)
Additional Analy CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of:	rtical Reques CUSTC ED OUT FOI Print Name Richa Sample Print Name	R ALL COMPI R ALL COMPI rd Mira Evidentiary S of Carrier	LIANCE SAMI Signat Ibal 2 Seals - E Tracki	PA 549.2) PLES ure / // (]Not Present ng Number / Bil /69-0684-	Pres I of Lading	Sampler Operator 0829 sent & Inta g	/ ID # 7	Date of Collec MW/DD/YY 04021 Present 8 Date MW/DD/YY 42-19	ction J Dama	Time of Collection HHMM (24 HR) 024 / ged Time HHMM (24 HR) 10-50
Additional Analy CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of:	rical Reques CUSTC ED OUT FOI Print Name Richa Sample Print Name Feders Sample	R ALL COMPI ALL COMPI AND ALL COMP	Seals - C	PA 549.2) PLES ure / / / (]Not Present ng Number / Bil (69-0684-]Not Present	Pres Il of Ladin . Joay	Sampler (Operator 0829) sent & Inta 9 sent & Inta	/ ID # 7 het	Date of Collec MW/DD/YY O4021 Present 8 Date MM/DD/YY 42-19 Present 8	tion ි Dama	Time of Collection HHMM (24 HR) 024/ ged Time HHMM (24 HR) 10-50 ged
Additional Analy CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished by:	rical Reques CUSTC ED OUT FOI Print Name Richa Sample Print Name Feder d Sample Print Name	R ALL COMPI ALL COMPI AND ALL COMP	Seals - E Signat Seals - E Tracki Seals - E Tracki Seals - E Seals - E Seals - E Seals - E	PLES ure / M (]Not Present ng Number / Bil /69-0684-]Not Present ure of Relinquis	Pres Il of Ladin 2024 Pres sher	Sampler of Operator 0829 sent & Inta g sent & Inta	/ ID # 7 nct	Date of Collec MW/DD/YY D402/ Present 8 Date MW/DD/YY Y2-/9 Present 8 Date MM/DD/YY	tion ි Dama	Time of Collection HHMM (24 HR) 024 / ged Time HHMM (24 HR) 10:50 ged Time HHMM (24 HR)
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Additional Analy CHAIN OF MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished by: FO BE FILLED Relinquished by: Comments:	Alical Request CUSTC ED OUT FOI Print Name Richa Sample Print Name Sample Print Name Sample OUT BY LA Print Name Yalini Sample	ALL COMPI A ALL C	Seals - C Seals - C Seals - C Seals - C Seals - C Seals - C Seals - C PERSONNEL Signat	PA 549.2) PLES ure ///// Not Present Ing Number / Bil //// // Not Present ure of Relinquis INot Present Ure of Receiver /// Not Present Ure of Receiver /// Not Present	Pres Il of Ladin Dog y Pres sher	Sampler of Operator 08297 sent & Inta sent & Inta sent & Inta	/ ID # 7 net net	Date of Collect MW/DD/YY D4021 Present 8 Date MM/DD/YY Present 8 Date MM/DD/YY Present 8 Date MM/DD/YY Present 8 Date MM/DD/YY Present 8	tion う Dama Dama	Time of Collection HHMM (24 HR) 024/ ged Time HHMM (24 HR) 10:50 ged Time HHMM (24 HR) 0841 ged

Request ID F	Here							Ace	cession	i # Here
1904020	83/	One Form Per Sample						One Form Per Samj	n ple / /	904174 -
LAB		DATE		SAMPLE TEMPE	RATURE (deg C):	1.3	C Fi	ield prese	rvation confirmed
ONLY		STAMP		Sample Pricrity (I	f 1 or 2 call	lab):	DP	Preserved to pH <	2 at Lab	Date/Initial:
SUBMITTER CO	ODE (3-digi	0:	LAB REMA	ARKS:						
O 55000 (DWB	-SDWA - fe	e-for-service)	O 55420	(DWB-non-reg. co	ntaminants)	0 ⁶⁴⁰⁰⁰	0 (Indiv fee-f	for-service)	THER 5	55001
NMED AREA OF	FFICE: La	s Cruces	SA	MPLER NAME: R	ichard Mi	rabal	5	SAMPLE CONTA	CT: 575-	-640-5137
WATER SYSTE	MID: NM	3590607	WA	TER SYSTEM NA	ME: NAS	AJSC WH	ITE S	SANDS TEST	ACILIT	Y - FF
FACILITY/LOCA	ATION: Tre	atment Plant	#1 (Boost	er #1) FACILITY	D: 90607	005		SAMPLING PO	DINT Entr	y Point (SP906070051
FIELD DATA]Non-chlon	inated Chi	orinated Re	esidual (mg/l):	pH:		Conduc (uS/cm)	ctivity):	Tempera (deg. C)	ature :
REMARKS	field remark	5:								
SAMPLING DOCUMENTATI	ION DAM	ED monitoring It with facility	∎Comp ∎Grab sa	iliance ⊟Confirma mple ⊟Non-col	ation □C mpliance	omposite DCther	Desc	cribe:		
SAMPLE TYPE	□Nor □Rav	n-filtered Water	r ⊡Fiite]Finished w	ered water ∧ater ∏Other	air/liquid/sc	xid	Desc	oribe:	÷	
	I Nor		Shipped at	<4 C UHCI add	ded to pH <	=2	nv03 a	dded to pH <=2	_H250	04 added to pH <= 2
		to acidily 1806 acid add	Shipped at □NaOH a led □A	< 4 C □HClade dded to pH >= 12 cidīfied at Lab	Oth □Oth □Na2S2C	:=2 ∐r ner)3	Desc	dded to pH <=2 rribe:	UH230	04 added to pH <= 2
Analysis Reques	Lab	to acidily 4806 acid add Color	Shipped at NaOH a ed A (SM2120	< 4 CHClade dded to pH >= 12 cidified at Lab OB); Odor (SN	000 to pH □0th □Na2S2C 12150 B)	≕ z ⊔r ner)3	Desc	dded to pH <=2 xribe:		04 added to pH <= 2
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Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE	Lab C6/ ited: tical Request CUSTC	to acidity 1806 acid add Color sts: DDY R ALL COMP	INADH A NADH A ed A (SM2120	<pre><4 CHCrade dded to pH >= 12 cidified at Lab D B); Odor (SM MPLES</pre>	ded to pH < □0th □Na2S2C 12150 B)	= 2n her 03	Desc	dded Io pH <=2 cribe:		J4 added to pH <= 2
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By:	Lab C6/ tical Request CUSTC DOUT FO Print Name	to acidity H8O6 acid add Color sts: DDY R ALL COMP	INADH A NaOH A ed A (SM2120	<pre><4 CHCrade dded to pH >= 12 cidified at Lab D B); Odor (SM MPLES nature ;</pre>	ded to pH < □Oth □Na2S2C 12150 B)	Sampler /	Desc	Date of Collecti	on T	Time of Collection
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By:	Lab Color ited: CUSTC DOUT FO Print Name	a color to acidity 1806 acid add Color sts: DDY R ALL COMP		<pre><4 CHCrade dded to pH >= 12 cidified at Lab D B); Odor (SM MPLES nature ' '</pre>	ded to pH < □0th □Na2S2C 12150 B)	Sampler / Operator 0829	Desc Desc ID #	Date of Collecti MW/DD/YY	ON T H	Time of Collection HMM (24 HR)
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By:	Lab C6/ ited: CUSTC DOUT FO Print Name Richa	to acidity 1806 acid add Color sts: DDY R ALL COMP Ard Mira Evidentiary S	INADH a NaOH a Idd A SM2120 SM2120 SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN	<pre><4 C</pre>	Looph < □Oth Na2S2C 12150 B) (□Pres	Sampler / Operator 0829 Sent & Inta	Desc Desc ID #	Date of Collecti MW/DD/YY 09 ∪2 19 □ Present & D	on T H) Jamaged	Time of Collection HMM (24 HR)
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of:	Lab Color Color CUSTO COUTFO Print Name Sample Print Name	to acidity 1806 acid add Color sts: DDY R ALL COMP Ird Mira Evidentiary S of Carrier	INADH a NaDH a Ied A (SM2120 Sign bal 7 ieals -	<pre><4 C</pre>	Ill of Lading	Sampler / Operator 0829 Sent & Inta 9	Desc Desc ID #	Date of Collecti MW/DD/YY 09 U2 19 □ Present & D Dato MW/DD/YY	Don T H Pamaged	Time of Collection HMM (24 HR) DCJ [Time HMM (24 HR)
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of:	Lab	Color to acidity 1806 acid add Color sts: DDY R ALL COMP ITCI Mira Evidentiary S of Carrier CETPT	ILIANCE SA	<4 C HCrade dded to pH >= 12 cidified at Lab D B); Odor (SM DB); Odor (SM DB); Odor (SM DB); Odor (SM DNOT Present cking Number / Bi 769-0684 DNot Present	□ Oth □ Na2S2C 12150 B) □ Pres Ill of Lading	Sampler / Operator 0829 sent & Inta g	ID #	Date of Collecti MM/DD/YY 09 UR 19 Date MM/DD/YY 9 Present & D Date MM/DD/YY 9 - 2 - 19	on T Hy Damaged T H	Time of Collection HMM (24 HR) $0 \neq 3$ (HMM (24 HR) 10 ± 50
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of:	Lab	Color to acidity 1806 acid add Color sts: DDY R ALL COMPI R ALL COMPI R ALL COMPI Color State Color St	ILIANCE SA	<4 CHCrade dded to pH >= 12 cidified at Lab D B); Odor (SN MPLES nature	ded to pH < □0th □Na2S2C 12150 B) (2150 B	Sampler / Operator 0829 sent & Inta 9 y	Desc Desc ID # 97	Date of Collecti MWDD/YY 090219 Date MWDD/YY 	Damaged Pamaged	Time of Collection (HMM (24 HR) 00031 Time HMM (24 HR) 10:50
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of: Relinquished Py:	Lab Color Co	Color to acidity 1806 acid add Color Sts: DDY R ALL COMP ACCOMP ACCOMP Color Sts: COLOR Sts:	ILIANCE SA Sign (SM2120 LIANCE SA Sign bal 7 seals - Trac Sign Trac Sign Trac Sign Trac Sign Sign Sign Sign Sign Sign Sign Sign	<4 CHCrade dded to pH >= 12 cidified at Lab D B); Odor (SN MPLES nature	ded to pH < □0th □Na2S2C 12150 B) (2150 B) □Pre: ill of Lading (- 202) □Pre: isher	Sampler / Operator 0829 sent & Inta 9	Desc Desc ID#	Date of Collecti MWDD/YY 04 ∪2 19 □ Present & D Date MWDD/YY ↓ 9- 2 - 19 □ Present & D Date MWDD/YY	on T H)amaged T H Qamaged T H Damaged T H	Time of Collection IHMM (24 HR) 00031 Time 101:50 Time IHMM (24 HR)
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Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of: Relinquished P Dy: TO BE FILLED C	Lab	e color to acidity 1806 acid add Color sts: DDY R ALL COMP rd Mira Evidentiary S of Carrier Evidentiary S of Relinquist Evidentiary S BORATORY	ILIANCE SA Sigu (SM2120 (SM2120 (SM2120 (SM2120 (SM2120 (SM2120 (SM2120 (SM2120) (SM210)	<4 CHCrade dded to pH >= 12 cidified at Lab D B); Odor (SN MPLES mature	In the second se	Sampler / Operator 0829 sent & Inta g	Desc Desc ID# P7	Date of Collecti MW/DD/YY 090219 Present & D Date MW/DD/YY 9 Present & D Date MM/DD/YY	on T H) amaged T H Pamaged	Time of Collection HMM (24 HR) 00031 Time HMM (24 HR) 10:50 Time HMM (24 HR)
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of: Relinquished Py:	Lab	In a cidity to acidity 1806 acid add Color sts: DDY R ALL COMP ITCI Mira Evidentiary S of Carrier R Etpt Evidentiary S of Relinquist Evidentiary S BORATORY I of Receiver	ILANCE SA Sign (SM2120 (SM2120 (SM2120 (SM2120 (SM2120 Sign ball 7 (SM2120 (SM2120 (SM2120 (SM2120 (SM2120) (SM210)	C C HCrade dded to pH >= 12 cidified at Lab D B); Odor (SN MPLES nature C Not Present cking Number / Bi Y69-0684 Not Present nature of Relingui Not Present cking Number / Bi Y69-0684 Not Present nature of Relingui	Ill of Lading	Sampler / Operator 0829 sent & Inta g	Desc Desc ID# P7 act	Date of Collecti MWDD/YY ∂QU2 1Q □ Present & D Date MWDD/YY □ Present & D Date MWDD/YY □ Present & D Date MWDD/YY	on T H)amaged 7 Damaged 7 Damaged 7 H Damaged	14 added to pH <= 2
Analysis Reques Additional Analyt CHAIN OF MUST BE FILLE Sample was Collected By: Placed in Care of: Relinquished y: COBE FILLED C Relinquished Pay:	Lab	to acidity to acidity 1806 acid add Color sts: DDY R ALL COMP Ard Mira Evidentiary S of Carrier & Expr Evidentiary S of Relinquist Evidentiary S BORATORY of Receiver W. Guy	ILANCE SA Sigu (SM212C) (SM21C) (S	C C HCrade dded to pH >= 12 cidified at Lab D B); Odor (SM MPLES nature C MOLES Not Present cking Number / Bi Y69-0684 Not Present nature of Relinqui Not Present cking Number / Bi Y69-0684 Not Present nature of Relinqui Not Present cking Not P	Ill of Lading	Sampler / Operator 0829 sent & Inta g	ID #	Date of Collecti MWDD/YY 090219 Date MWDD/YY 9-2-19 Present & D Date MWDD/YY Present & D Date MWDD/YY Date MWDD/YY 0403	Damaged	24 added to pH <= 2

Request ID	Here						ANAI	YTICAL REQUEST
190402	0833	One Form Per Sample	•				One Form Per Sample	1904174-0
LAB USE >>>		OATE		SAMPLE TEMPER	RATURE (de	ng C): 7.3	3 C Field	preservation confirmed
ONLY	5	STAMP		Sample Priority (If	1 or 2 call la	ab):	Preserved to pH < 2 a	it Lab Date/Initial:
SUBMITTER	CODE (3-digit)	i:	LAB REM	IARKS:				
O 55000 (DV	VB-SDWA - fe	e-for-service)	O 55420) (DWB-non-reg. cont	laminants)	O 64000 (Inc fee	dividual client e-for-service)	HER 55001
NMED AREA	OFFICE: Las	Cruces	S/	AMPLER NAME: Ric	hard Mira	abal	SAMPLE CONTACT	575-640-5137
WATER SYST	EM ID: NM3	590607	w	ATER SYSTEM NAV	E NASA	JSC WHITE	SANDS TEST FA	CILITY - FF
FACILITY/LOG	CATION: TREA	ATMENT PLA	NT #1 (Boo	ster #1) FACILITY II	906070	05	SAMPLING POIN	T Entry Point (SP906070051)
FIELD DATA	Non-chlorir	nated ICh	lorinated i	Residual (mg/l):	pH:	Cond (uS/c	fuctivity 7 sm): (t	emperature leg. C):
REMARKS	Field remarks	5						
SAMPLING DOCUMENTA		D monitoring with facility	Com	pliance Confirmat ample Non-com	tion Co pliance C	nposite De Other	escribe:	
SAMPLE TYP	E Non-	filtered Wate	r 🗆 Fill]] Finished	tered waler water □Other a	ir/liquid/soli	De d	scribe:	1
Analysis Requ	□/von □Lab □C6H ested:	to acidify 806 acid add	© NaOH Ied □/ Cyanide	edded to pH >= 12 Acidified at Lab [e (EPA 335.4)	=0 to pH <= ☐Othe]Na2S2O3	r De	sadea to pH <=2 [Isoribe:	Tursona aqueo to bH <≡ 5
Additional Anal	vtical Request	is:	- Januar	(LI / 1000. 1)				
			LIANCES	AMPI ES				
ample was collected By:	Print Name		SI	gnature	0	Sampler / Operator ID #	Date of Collection	Time of Collection HHMM (24 HR)
	Richa	rd Mira	ıbal,∕	wa	K	08297	040219	0833
	Sample I	Evidentiary S	ieals -	Not Present	Prese	ont & Intact	Present & Dan	naged
laced in are of:	Print Name	of Carrier	Tra	acking Number / Bill	of Lading		Date MM/DD/YY	Time HHMM (24 HR)
	Federa-	e Exp	1055 -	7469-0684	2024		4-2-19	10:50
alinguished	Sample I	Evidentiary S	icals -	Not Present	Prese	ent & Intact	Present & Dan	naged
y:	Print Name	or Reunquist	ier alį	gnature of Relinquis	ner		MM/DD/YY	HHMM (24 HR)
	Sample I	Evidentiary S	ieals -	Not Present	Prese	ent & Intact	Present & Dan	naged
O BE FILLED	OUT BY LAP	BORATORY	PERSONN	IEL ONLY				
elinquished y:	Print Name	of Receiver	Sig	anature of Receiver			Date MW/DD/YY	Time HHMM (24 HR)
	aumin	r bara	NNS	yne	1		0410311	6 05647
Commenter	Sample I	Evidentiary S	ieals -	Not Present	Prese	ent & Intact	Present & Dan	naged
somments:					/			
Comments:								

	larr	PIRIA			121	Access	sion # Here	
190402	er Sample	0			Per	Sample	1904120	1-1
USE >>>	DATE <<< TIME	SAMPLE TEMPER	RATURE (deg C):	2.3	C.	Field p	reservation confirmed	
UNLY	STAMP	Sample Priority (If	f 1 or 2 call lab):		eserved to	pH < 2 at L	ab Dete/Initial:	
SUBMITTER	CODE (3-digit):	LAB REMARKS:						
O 55000 (D)	WB-SDWA - fee-for-service)	O 55420 (DWB-non-reg. con	ntaminants) O 640	00 (Individ fee-fo	sual client r-service)	O OTHE	R 55001	
NMED AREA	OFFICE: Las Cruces	SAMPLER NAME: RI	ichard Mirabal	S	AMPLE CO	NTACT: (75-640-5137	
WATER SYS	TEM ID: NM3590607	WATER SYSTEM NAM	ME: NASAJSC W	HITE S	ANDS TE	ST FACI	LITY - FF	
FACILITY/LO	CATION: TREATMENT PLAI	NT #1 (Booster #1) FACILITY II	D: 90607005		SAMPLIN	G POINT	ENTRY POINT (SPeeco	0051
FIELD DATA	Non-chlorinated	orinated Residual (mg/l):	pH:	Conduct	wity	Tem	perature	-
REMARKS	Field remarks:			(us/cm):	<u></u>	(deg	л. G:	
SAMPLING DOCUMENT/	ATION Split with facility	■Compliance □Confirmation ■Grab sample □Non-com	ntion Composite	Descri	be:			
SAMPLE TYP	PE Non-filtered Water	Filtered weter Finished water □Other a	aintiouid/colid	Descri	be:			1
	C6H8O6 acid adde	ed/.cidified at Lab	TW925203					
unalysis Requi	ested: Hg (EP	PA 245.1); Sb. As, Cu, Se,	TI, U (EPA 200.8): Al, Ba	, Cd, Cr,	Be, Fe, M	In, Ag, Zn (EPA 20	0.7)
unalysis Requi	ested: Hg (EP lytical Requests:	PA 245.1); Sb. As, Cu. Se,	TI, U (EPA 200.8): Al, Ba	. Cd, Cr,	Be, Fe, M	In, Ag, Zn (EPA 20	0.7)
Inalysis Requi Idditional Anal CHAIN OI	ested: Hg (EP lytical Requests: F CUSTODY	PA 245.1); Sb. As, Cu. Se,	TI, U (EPA 200.8): Al, Ba	. Cd, Cr,	Be, Fe, M	n, Ag, Zn (EPA 20	0.7)
Inalysis Requi Idditional Anal CHAIN OI IUST BE FILL ample was collected By:	ested: Hg (EP lytical Requests: F CUSTODY LED OUT FOR ALL COMPL Print Name	A 245.1); Sb. As, Cu, Se, JANCE SAMPLES	TI, U (EPA 200.8): Al, Ba	Cd, Cr, C3,2°	Be, Fe, M	n, Ag, Zn (EPA 20 און און און און און און און און און און	0.7)
Inalysis Requ Idditional Anal CHAIN OI IUST BE FILL ample was ollected By:	ested: Hg (EP lytical Requests: F CUSTODY LED OUT FOR ALL COMPL Print Name Richard Mira	JANCE SAMPLES	TI, U (EPA 200.8 Sampler Operator 0821): Al, Ba / D	Cd, Cr, C3,2 ° ste of Col	Be, Fe, M	n, Ag, Zn (EPA 20 און אויין Time of Collection אואפא (24 אות)	0.7)
unalysis Requiditional Anal CHAIN OI IUST BE FILL ample was collected By:	ested: Hg (EP lytical Requests: F CUSTODY LED OUT FOR ALL COMPL Print Name Richard Miral Semale Evidenties: S	A 245.1); Sb. As, Cu, Se,	TI, U (EPA 200.8): Al. Ba	Cd, Cr, O.3.7 ste of Col MDDVY	Be, Fe, M 18 lection g	In. Ag, Zn (EPA 20 a))) ¹⁶ Time of Collection HHMM (24 HR) DS334	0.7)
Inalysis Requ Idditional Anal INST BE FILL ample was follected By: laced in	ested: Hg (EP lytical Requests: F CUSTODY LED OUT FOR ALL COMPL Print Name Richard Miral Sample Evidentiary Se Print Name of Carrier	A 245.1); Sb. As, Cu. Se, JANCE SAMPLES Bignature bal L. Mot Present Tracking Number / Bill	Samplar Samplar Operator Operator OB21 Present & Int. of Ladina	/ D ID# N 10# N 17 0 act 0	Cd, Cr, O32 ste of Col MDDvy Presen	Be, Fe, M 18 Inction y	In, Ag, Zn (EPA 20)))))) Time of Collection HHMM (24 HR) DS34 ed	0.7)
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Request ID 19 091 89	Here 0931 /90	3290830						ANAL Acces	YTICAL REC	QUEST
190802903	352-	One Form Per Sample						One Form Per Sample	19/101	74/-05
LAB	0	DATE	0	SAMPLE TEMPER	RATURE (de	a C): 1 2	L.C	Field	preservation cor	afirmed
ONLY	0	STAMP		Sample Priority (If	1 or 2 call la	ab):	/ Preserve	d to pH < 2 at	Lab Date/initi	ial:
SUBMITTER (CODE (3-digit)):	LAB REM	ARKS:						
O 55000 (DV	VB-SDWA - fe	e-for-service)	0 55420	(DWB-non-reg. con	taminants)	O 64000 (li	ndividual cli	ent OTH	ER 55001	
NMED AREA	OFFICE: Las	Cruces	SA	MPLER NAME: Ri	chard Mira	abal	SAMPLE	CONTACT:	575-640-513	7
WATER SYST	EM ID: NM3	590607	W	ATER SYSTEM NAM	ME: NASAJ	SC WHITE	SANDS	TEST FAC	ILITY - FF	
FACILITY/LOC	CATION: TREA	ATMENT PLAN	T #1 (Boo	ster #1) FACILITY I	D: 906070	05	SAM	PLING POINT	F Entry Point (SI	P906070051)
FIELD DATA AND	Non-chlorir	nated Chid	prinated R	Residual (mg/l):	pH:	Cor (uS	ductivity /cm):	Te (de	emperature eg. C):	
REMARKS	Field remarks	E.								
SAMPLING DOCUMENTA		D monitoring with facility	■Comj ■Grab se	pliance ⊡Confirma ample ⊡Non-con	ition ⊡Con npliance □	nposite D Other)escribe:			
SAMPLE TYP	ENon- Raw	filtered Water water	Finished v	ered water water ⊡Other a	sir/liquid/solic	d C	lescribe:		0	
PRESERVATI	ON DiMore	e DStored S	Shipped at	SAC DHCLadd	led to oH <=	2 EHNC	3 added to	oH ≤≡2 □	H2SO4 added i	0 nH <= 2
						-				- -
		to acidify 806 acid adde	ed □A	added to pH >= 12 Acidified at Lab	Other Na2S2O3	r D	escribe:			
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Analysis Reque Additional Anal CHAIN OI MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished by:	LLab LLab C6H ested: ytical Request F CUSTO ED OUT FOR Print Name Richa Sample I Print Name Sample I Print Name OUT BY LAE Print Name	to acidify 806 acid adde Radion DY RALL COMPL rd Mira Evidentiary Se of Carrier Evidentiary Se of Relinquish Evidentiary Se Soratory P of Receiver	IANCE SA IANCE SA Sig bal bal Tra pals - er Sig pals - ERSONNI Sig	added to pH >= 12 Ackillied at Lab	□Other Na2S2O3 PA 903.1); PA 903.1); Prese I of Lading Y-J02 Y □Prese sher	; Radium-: ; Radium-: Sampler / Operator ID : 08297 ent & Intact	Pescribe: 228 (EPA MM/DD/ 032 Pro Date MM/DD/ V. Pro Date MM/DD/ Date MM/DD/ Date MM/DD/ Date	904.0); Gr f Collection YY 2 9 19 esent & Dam YY . 2-19 esent & Dam YY	Time of Co HHMM (24 H OE30 OE3 aged Time HHMM (24 H /OLS aged Time HHMM (24 H aged	eta (900.0)
Analysis Reque Additional Anal CHAIN OI MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished by: TO BE FILLED Relinquished by:	LLab LLab C6H ested: ytical Request F CUSTO ED OUT FOR Print Name Sample I Print Name Sample I Print Name Sample I Print Name	to acidify 806 acid adde Radior IS: PDY RALL COMPL IS: PDY RALL COMPL IS: PDY	NaOH a NaOH a	AMPLES AMPLES MAMPL	□Other □Na2S2O3 PA 903.1); PA 903.1); Prese I of Lading Y-JC2 Y □Prese sher □Prese	; Radium-3 Sampler / Operator ID = 08297 ent & Intact	Date of MM/DD/ Date O/ Date O/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/	904.0); Gr f Collection YY 2 9 [9 2 9 [9 esent & Dam YY - 2-/9 esent & Dam YY esent & Dam YY	Time of Co HHMM (24 H OE30 OE31 aged Time HHMM (24 H IOLS aged Time HHMM (24 H aged Time HHMM (24 H	eta (900.0)
Analysis Reque Additional Anal CHAIN OI MUST BE FILL Sample was Collected By: Placed in Care of: Relinquished by: TO BE FILLED Relinquished by:	LLas LLas C6H ested: ytical Request F CUSTO ED OUT FOR Print Name Richa Sample I Print Name Sample I Print Name Sample I Print Name Sample I Print Name	to acidify 806 acid adde Radion Is: DY ALL COMPL COM	INBOH & INBOH & INO	AMPLES Radium-226 (E AMPLES mature Mot Present Not Present Not Present Not Present Mot Present	□Other □Na2S2O3 PA 903.1); PA 903.1); Prese I of Lading Y-J0JY □Prese sher Prese	r C ; Radium-3 Sampler / Operator ID : 08297 ent & Intact ent & Intact	Date of MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date MM/DD/ Date	904.0); Gr (Collection YY 2 9 19 asent & Dam YY - 2-19 esent & Dam YY - 2-19 esent & Dam YY - 2-19 - 2 - 2-19 - 2 - 2-19 - 2	Time of Co HHMM (24 H 0 5 3 0 0 2 3 1 aged Time HHMM (24 H 0 5 3 0 0 2 3 1 0 2 3 1 0 2 3 0 0 2 3 1 0 2 4 H 0 4 H 0 2 4 H 0	eta (900.0)

Date 2 APK 19

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Laboratory / PO # 18EC061						Analysis	Require	ments			Special Instructions			
Return Address for Analytical Rep Brian Barrick, brian I.barrick@nass NASA/WSTF Environmental Depa 12600 NASA Road Las Cruces, NM 88012	orts: 1.gov irtment				Method 200.8	Ag, Zn:	ds 903.1 pha/Beta), 904.0							
Attn: 🛛 Brian Barrick (575) 524-:	5468			A Method 245.	e, Tl, U: EPA)	r, Be, Fe, Mn, . 200.7	les: EPA Metho 900.0 (Gross Al	nk Included			1260 Las (Attn:	00 NASA Road; Bldg. 120 Cruces, NM 88012 : JR Hennessey		
Sample No.	Sample Location	# of Containers	Sample type	Mercury: EPA	Sb, As, Cu, Se	Al, Ba, Cd, Ci EPA Method	Q1 Radionuclid (Radium-226),	HEAL Trip Blar			Ref.	e- to NASA DW COC'S Comments 04/03/17 2.3°C A		
1903290834	Treatment Plant #1 (Facility ID 90607005)	1	A	X	X	Х					250-mL H	DPE HNO, 1909 11 9-061		
11 0830	Treatment Plant #1 (Facility ID 90607005)	1	A				x				1-L HDPE	(HNO) 702		
11 0831	Treatment Plant #1 (Facility ID 90607005)	1	A				x				1-L HDPE	HNO3 TOB		
11 0832	Treatment Plant #1 (Facility ID 90607005)	-1	A				x				1-L HDPE	HNO; TOY		
" 0833	Treatment Plant #1 (Facility ID 90607005)	1	Α				x				1-L HDPE	HNO3 765		
1903290730	Treatment Plant #1 (Facility ID 90607005)	1	A					x		-	HEAL Trip	p Blank Included 706		
												-		
Relinquished By:	Da	te/Tin	ne:					Accep	ted By	/:		Date/Time:		
1 NULAPSIN_	ZAPRIQ/	10	05			yhit	:	FED	E	X		4/3/14 8:47		

Date 2 APR 19

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Laboratory / PO # 18EC061						Analy	ysis Re	quire	nents			Special Instructions
Return Address for Analytical Repo	rts:											1
Brian Barrick, brian.l.barrick@nasa	.gov											
NASA/WSTF Environmental Depart	tment									. 2		
12600 NASA Road												
Las Cruces, NM 88012			-				d 300.0	335.4				12600 NACA Bash Dila 120
Attn: 🛛 Brian Barrick (575) 524-5	468			В			PA Metho	A Method	d 524.2	luded		Las Cruces, NM 88012 Attn: JR Hennessey
Sample No.	Sample Location	# of Containers	Sample type	Coliform: SM9223	Color: SM2120 B	Odor: SM2150 B	Nitrate + Nitrite: E	Total Cyanide: EP.	VOA: EPA Metho	HEAL Trip Blank Inc		Comments 2.3°C
1904020830	Treatment Plant #1 (Facility ID 90607005)	1	A	x								Sealed 120-mL Na2S2O3
" 5831	Treatment Plant #1 (Facility ID 90607005)	1	Α		x	x						1-L glass amber unpreserved ("Color/Odor")
" 0232	Treatment Plant #1 (Facility ID 90607005)	1	Α				x					125-mL HDP H2SO4, back-up ("nitrate nitrite") 709
" 08.33	Treatment Plant #1 (Facility ID 90607005)	1	Α					Х				500-mL plastic amber NaOH ("Total Cyanide") \overline{O} (O
" 0834	Treatment Plant #1 (Facility ID 90607005)	1	Α						x			3, 40-mL ascorbic acid VOAs ("VOA")
a. tl	Treatment Plant #1 (Facility ID 90607005)	1	Α						х			Sampling: -0)(
11 II	Treatment Plant #1 (Facility ID 90607005)	1	Α						Х			headspace → Keep cool
11 0835	Treatment Plant #1 (Facility ID 90607005)	1	Λ							x		HEAL Trip Blank Included Array(05119 3612
Relinquished By:	Dat	e/Tir	ne:			-		- 92	Acc	epted	By:	Date/Time:
KMIKABIL	ZAPRI9/	100	05		1	1	X					4-2-19 10-07
	1					VI	ul		1	FED	EX	413114 8 47

Date 2 APR 19

Page <u>P</u> of <u>4</u>

Laboratory / PO # 18EC061						Anal	lysis R	equire	ments		Special Instructions
Return Address for Analytical Rep Brian Barrick, brian.l.barrick@nase NASA/WSTF Environmental Depa 12600 NASA Road Las Cruces, NM 88012	orts: a.gov artment			A Method 504.1	d 547	od 505	531.2	Method 525.2	Method 525.2		
Attn: 🛛 Brian Barrick (575) 524-	5468			123TCP: EP.	EPA Metho	B: EPA Meth	EPA Method	pounds: EPA	pounds: EPA		12600 NASA Road; Bldg. 120 Las Cruces, NM 88012 Attn: JR Hennessey
Sample No.	Sample Location	# of Containers	Sample type	EDB, DCBP,	Glyphosate:	Pesticide/ PC	Carbamates:	Organic Com	Organic Com	3	Comments 2.3°C
1904020836	Treatment Plant #1 (Facility ID 90607005)	1	A	x	x	х					40-mL Na ₂ S ₂ O ₃ clear VOAs ("SOC1") 19(11)16701
11 11	Treatment Plant #1 (Facility ID 90607005)	1	A	x	x	x					40-mL Na ₂ S ₂ O ₃ clear VOAs ("SOC1") 213
11 11	Treatment Plant #1 (Facility ID 90607005)	1	Α	x	x	x					40-mL Na ₂ S ₂ O ₃ clear VOAs ("SOC1") 73
11 P	Treatment Plant #1 (Facility ID 90607005)	1	Λ	x	x	x					40-mL Na ₂ S ₂ O ₃ clear VOAs ("SOC1") -013
11 8837	Treatment Plant #1 (Facility ID 90607005)	1	Α				x				40-mL amber C ₆ H ₇ KO ₇ + Na ₂ S ₂ O ₃ VOAs ("SOC2") つし
u n	Treatment Plant #1 (Facility ID 90607005)	1	A				x				40-mL amber C6H7KO7 - Na2S2O3 VOAs ("SOC2")
" 0838	Treatment Plant #1 (Facility ID 90607005)	1	A					х			1-L Na Sulfite glass amber ("SOC3") -715
" 0839	Treatment Plant #1 (Facility ID 90607005)	1	А						x		1-L Na Sulfite glass amber (w/ HCl vial) $\sim \bigcirc$) \geq <u>Sampling</u> : Fill amber halfway \rightarrow add HCl \rightarrow Fill Completely ("SOC4")
Relinquished By:	Da	e/Tim	ne:			-			Acc	ented By:	Date/Time:
1 MIRABAL	ZARK 19	110	005	-		7	5/			-press to ja	4-2-19 4-0
1		1				U	W	e	1	FED	EX 413/19 8:47
		61	12			J					

WSTF 381B (03/13)

Date 2 ATR 19

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Laboratory / PO # 18EC061					1	Ana	lysis Req	uirem	ents			Special Instructions	
Return Addre	ess for Analytical B	Reports:				1							
Brian Barrick NASA/WST 12600 NASA Las Cruces, N	c, brian.l.barrick@r F Environmental D A Road NM 88012	nasa.gov epartment			ethod 515.3	548.1		rite, Cl, SO4:		045D	())40C	
Attn: 🛛 Bri	an Barrick (575) 5	24-5468			Acids: EPA M	PA Method	Method 549.2	, Nitrate + Nii 300.0	SM5540 C	EPA Method 9	0 C (Modified	.H ⁺ B/ EPA 90	12600 NASA Road; Bldg. 120 Las Cruces, NM 88012 Attn: JR Hennessey
Sar	nple No.	Sample Location	# of Containers	Sample type	Chlorinated A	Endothall: E	Diquat: EPA	F, NO2, NO3 EPA Method	Surfactants: S	Corrosivity: H	TDS: SM254	pH: SM4500-	Comments 2.3 [°] C
190400	20840	Treatment Plant #1 (Facility ID 90607005)	1	A	x	x							500-mL Na2S2O3 glass amber ("SOC5") 19(14)167-06
11	0841	Treatment Plant #1 (Facility ID 90607005)	`1	A			x						250-mL HDPE Na ₂ S ₂ O ₃ ("SOC6") -017
21	0842	Treatment Plant #1 (Facility ID 90607005)	1	A				x	x	x	x	x	500-mL HDPE unpreserved ("Secondaries")
Ð	0843	Treatment Plant #1 (Facility ID 90607005)	1	Α				X ,	x	x	x	x	500-mL HDPE unpreserved ("Secondaries") -1218 -218
													to-04/63119
										_			
2 11	K IAR AA	7 181 10	Date/1	ime:	-	-	~	/		Acce	pted E	sy:	User 10 http://
~ MIL	NIDA	rainin,	//	, 03			P	full	,	1	TT) \$	X 413/19 4:41
							1	1		,	- 1		- then a th