Environmental Resources Management

105 Maxess Road, Suite 316
Melville, NY 11747
(631) 756-8900
(631) 756-8901 (fax)
http://www.erm.com

8 October 2018
Reference: 0311941

Mr. Eric Obrecht
Director, Remedial Bureau A
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, Section B
625 Broadway, 11th Floor
Albany, NY 12233-7015

Re: Operations Report: July – September 2018
Applied Environmental Services/Shore Realty Superfund Site
NYSDEC Site #130006
1 Shore Road, Glenwood Landing, New York 11547

Dear Mr. Obrecht:

On behalf of the Performing Parties Group (PPG), please find enclosed the Operations Report and Alarm Summary for the above-referenced Site during the 3-month period of 1 July – 30 Septmeber 2018. A brief summary of key milestones, results, and the near-term path forward is provided below. Site Location and Layout Maps, the standard monthly summaries presenting additional operational detail and supporting laboratory analytical data packages are attached.

July: Routine operational maintenance activities continued throughout the month. The SVE/AS components of the treatment system were offline from 29 June until 3 July. The issue was resolved by ERM's controls subcontractor and the utility. A nutrient amendment injection was performed on 18 July.

On 26 & 27 July, quarterly groundwater samples were collected from the individual extraction wells and the Site groundwater monitoring wells. Treatment system samples (soil vapor extraction {SVE} & recovered groundwater) were collected on 26 July, Prior to the end of Pulse Cycle No, 19. On 27 July, the remedial system was shut down in accordance with the regularly scheduled pulse operation shutdown period that continued until 27 August.

August: Routine shutdown period maintenance activities continued throughout the month. Remedial systems were restarted on 27 August. Post start up samples for Pulse Cycle No. 19 were collected from the treatment system recovered groundwater on 28 August. Soil vapor was not sampled due to the failure of the sparge compressor. A nutrient amendment was performed on 24 August.

September: Routine operational maintenance activities continued throughout the month. The treatment systems' recovered and treated groundwater were sampled on 26 September. Soil vapor was not sampled due to the failure of the sparge compressor. Replacement parts have been ordered. A nutrient amendment injection was performed on 24 September.

The groundwater treatment system has experienced numerous nuisance shutdowns from accumulated sediment interfering with the T-06 Low Level switch. On 26 September the sidewall horizontal reed switch was replaced with a drop-in, tethered float switch. No related shutdowns have occurred since.

A few salient data points are summarized in the table below:

	(1 - 27) July	(27 – 31) August	(1 – 30) Sept.	Comments
% Operational Time (GW/SVE & AS)	89%/90%	100%/22%	85%/0%	% of scheduled period of operation
Gallons of Water Treated	124,469	27,495	142,959	
SVE VOC Concentrations (mg/m³)	74.9	0.0	0.0	
VOC Removed SVE (pounds)	92.7	0.0	0.0	
GW VOC Concentrations (µg/l)	46.4	193.9	50.1	
VOC Removed GW (pounds)	0.048	0.044	0.060	

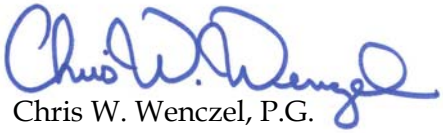
Next Reporting Period/Looking Forward:

October: Routine maintenance activities will continue throughout the month. A groundwater monitoring event is scheduled for 25 and 26 October, prior to the end of Pulse Cycle No. 20s' 'On' period to occur on or about 26 October.

Standard monthly summaries and corresponding reduced laboratory analytical data packages are attached in Appendices A – C for the months of July 2018 – September 2018, respectively. Copies of the full laboratory data deliverables are included in a separate WinZip file. Analytical results of groundwater samples collected from Site monitoring and extraction wells in January and April will be summarized, evaluated and presented in the forthcoming Semi-Annual Monitoring Report/Technical Memorandum for February 2018 – July 2018.

Please feel free to contact me at (631) 756-8920, or email me at: chris.wenczel@erm.com if you have any questions, comments or concerns regarding the enclosed report.

Sincerely,



Chris W. Wenczel, P.G.
Principal Consultant

Attachments

cc: Ashley Similo (US EPA)
Deborah E. LaMond (PPG Technical Committee; Phillips 66 Remediation Management)
Mark Hendrickson (PPG Technical Committee; Chevron)
Jay Tolle (PPG Technical Committee; Northrup Grumman Corp.)
Robin Stone Einbinder, Esq. (PPG Technical Committee)
Jeff Kuzemchak (Northrup Grumman Corp.)
Zwelonke Ian Ushe (NYSDOH)
James Thompson, Esq., Shook, Hardy & Bacon
Brandi Sablatura, Esq., Phillips 66
Bett Sundermeyer, CP, Phillips 66
Jim Perazzo, (ERM)
John Maddox, (ERM)

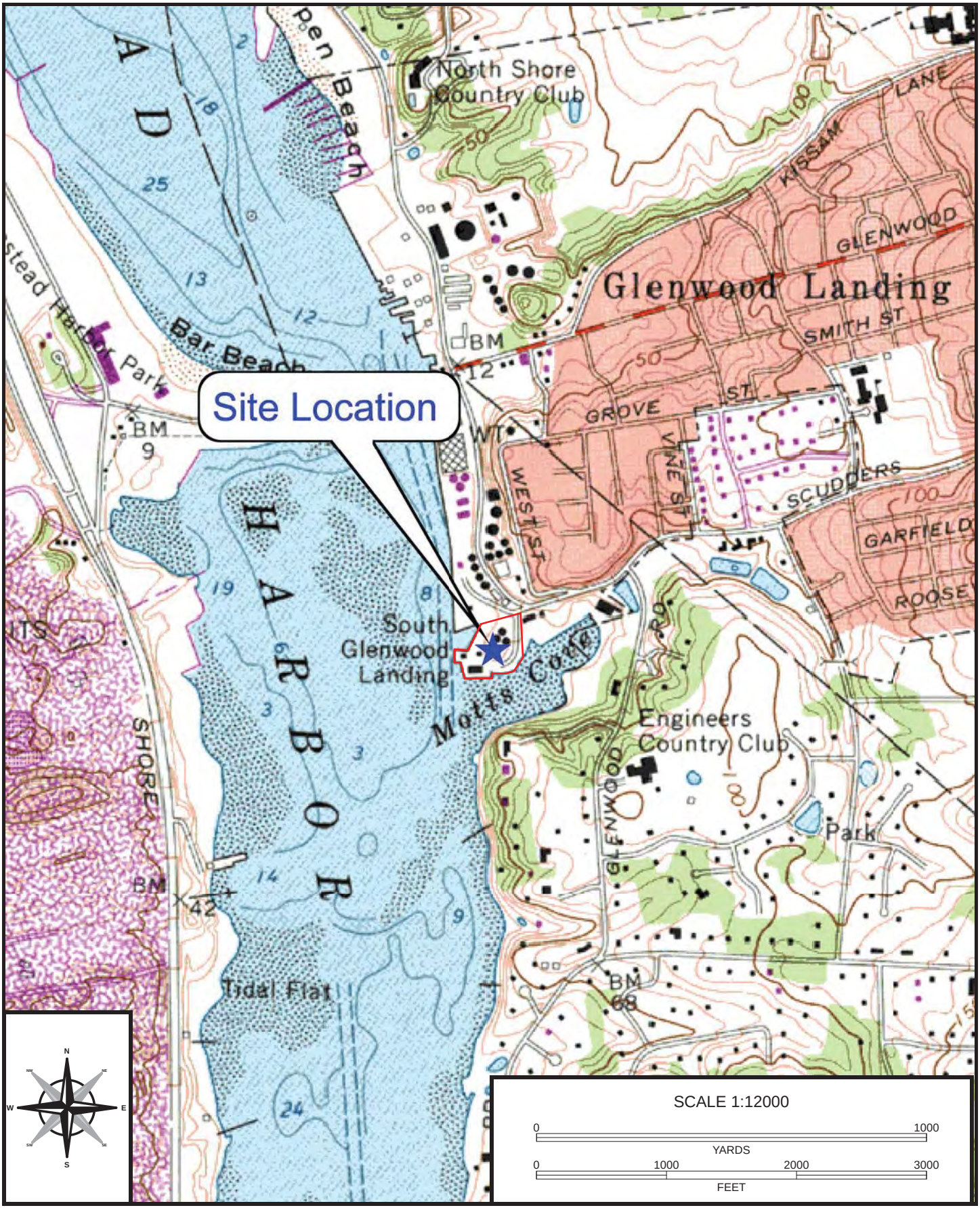
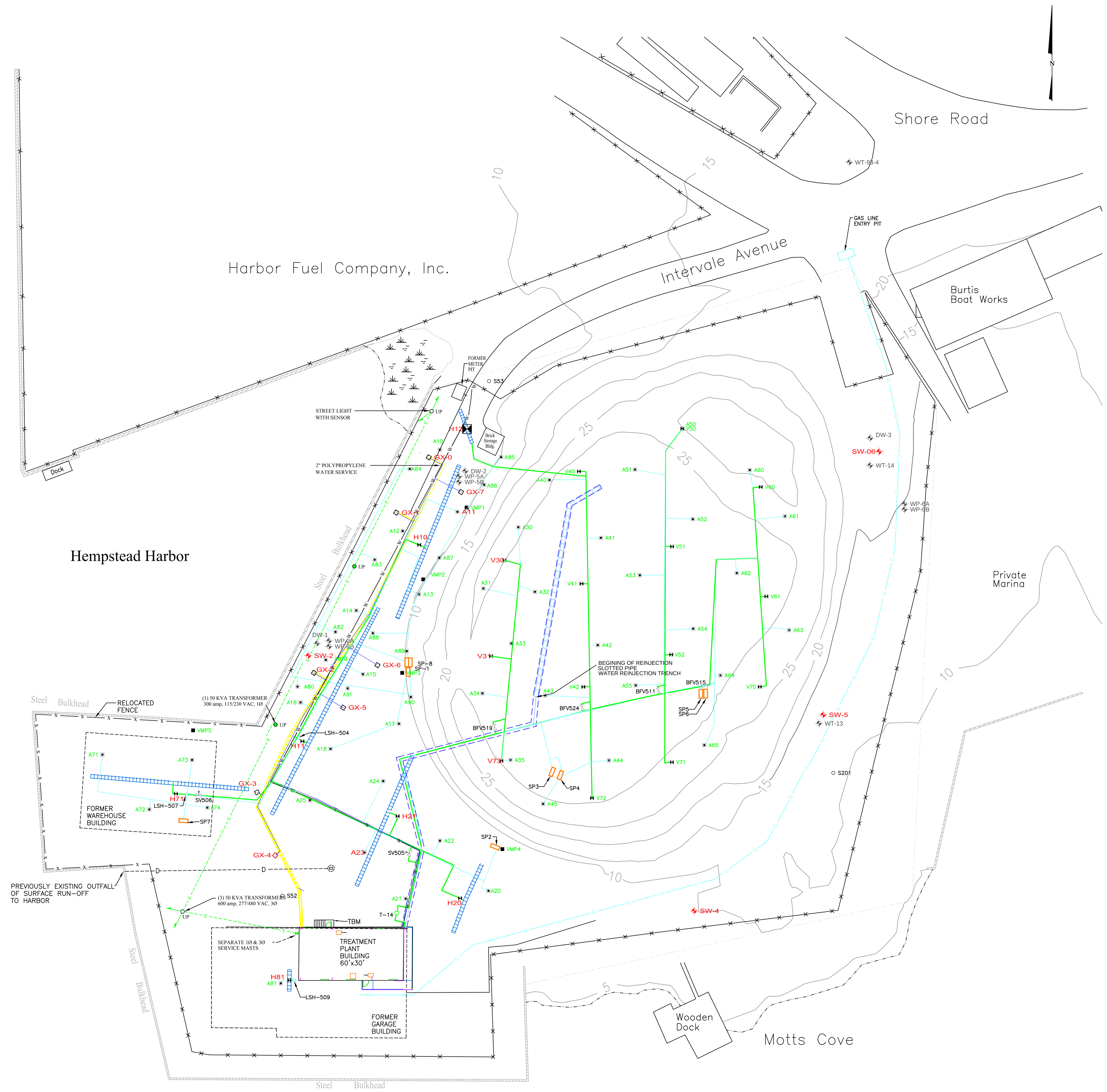


Figure 1 - Site Location Map
AES Shore Realty Superfund Site
1 Shore Road, Glenwood Landing, NY
03/04/13
Prepared For: AES Shore Realty.

Map Name: SEA CLIFF
Copyright: Copyright (C) 2009 MyTo
Date Published: 1968

ERM

0 40' 80'
GRAPHIC SCALE IN FEET



QUARTERLY SITE MONITORING POINTS ARE IN RED

LEGEND

- GROUNDWATER MONITORING WELL
- VAPOR EXTRACTION POINT
- VAPOR MONITORING POINT
- AIR SPARGE WELL
- GROUNDWATER EXTRACTION WELL
- WATER UTILITY LINE
- GAS UTILITY LINE
- ELECTRIC UTILITY LINE
- ELECTRIC UTILITY POLE
- ELECTRIC UTILITY POLE WITH GUIDE WIRES
- VAPOR EXTRACTION PIPE
- AIR SPARGING LINE
- UTILITY SITE DRAINAGE
- GW EXTRACTION PIPES
- GW EXTRACTION INST POWER
- GROUNDWATER REINJECTION TRENCH
- FENCE

0 30' 60'
GRAPHIC SCALE IN FEET

SOURCE: HANDEX OF NEW JERSEY, INC. 500 CAMPUS DRIVE P.O. BOX 451, MORGANVILLE, NEW JERSEY, 07751
SITE PLAN DWG NAME: 12499-SP, DATE 2/16/2002 FIGURE 1
BASEPLAN DONE BY: LAND TECH REMEDIAL, INC.

TITLE
SITE LAYOUT MAP
AES/SHORE REALTY
SUPERFUND SITE

PREPARED FOR
THE PERFORMING PARTIES GROUP

Environmental Resources Management

DRAWN BY	SCALE	DATE	JOB NO.	FIGURE
CWW/EMF	AS SHOWN	04/03/2014	0235063.08	2

R:\Scout\Projects\AES Shore Realty\CAD\2012\2014-06-25 - AES Shore Realty - Site Layout Figure (REVISED).dwg (06/25/2014 - 12:30pm Melville)

Shore Road

Harbor Fuel Company, Inc.

Intervale Avenue

Burtis Boat Works

GAS LINE ENTRY PIT

Hempstead Harbor

Private Marina

Motts Cove

Wooden Dock

Dock

Steel Bulkhead

RELOCATED FENCE

FORMER WAREHOUSE BUILDING

FORMER GARAGE BUILDING

TREATMENT PLANT BUILDING 60'x30'

PREVIOUSLY EXISTING OUTFALL OF SURFACE RUN-OFF TO HARBOR

STREET LIGHT WITH SENSOR

2" POLYPROPYLENE WATER SERVICE

FORMER METER PIT

Brick Storage Bldg

(1) 50 KVA TRANSFORMER 300 amp, 115/230 VAC, 1Ø

(3) 50 KVA TRANSFORMERS 600 amp, 277/480 VAC, 3Ø

SEPARATE 1Ø & 3Ø SERVICE MASTS

BEGINING OF REINJECTION SLOTTED PIPE WATER REINJECTION TRENCH

QUARTERLY SITE MONITORING POINTS ARE IN RED

LEGEND

- GROUNDWATER MONITORING WELL
- VAPOR EXTRACTION POINT
- VAPOR MONITORING POINT
- AIR SPARGE WELL
- GROUNDWATER EXTRACTION WELL
- WATER UTILITY LINE
- GAS UTILITY LINE
- ELECTRIC UTILITY LINE
- ELECTRIC UTILITY POLE
- ELECTRIC UTILITY POLE WITH GUIDE WIRES
- VAPOR EXTRACTION PIPE
- AIR SPARGING LINE
- UTILITY SITE DRAINAGE
- GW EXTRACTION PIPES
- GW EXTRACTION INST POWER
- GROUNDWATER REINJECTION TRENCH
- FENCE

30' 0 30' 60' 120'

Graphic Scale in Feet

SOURCE: HANDEX OF NEW JERSEY,INC.
500 CAMPUS DRIVE P.O. BOX 451,
MORGANVILLE, NEW JERSEY, 07751
SITE PLAN
DWG NAME: 12499-SP, DATE 2/16/2002
FIGURE 1
BASEPLAN DONE BY: LAND TECH REMEDIAL, INC.

TITLE

QUARTERLY SITE MONITORING POINTS
AES/SHORE REALTY SUPERFUND SITE
GLENWOOD LANDING, NEW YORK

PREPARED FOR

THE PERFORMING PARTIES GROUP

Environmental Resources Management

SCALE	FIGURE
GRAPHIC	3

DRAWN:	JOB NO.:	FILE NAME:	DATE
CWW/EMF	0235063	SEE PATH	06252014

R:\Scout\Projects\AES Shore Realty\CAD\2012\2014-06-25 - AES Shore Realty - New and Correct Site Plan - Use For All Future Drawings (CWW).dwg (06/25/2014 - 12:18pm Melville)

APPENDIX A

July 2018 Operations Report

Recovered Groundwater Influent and Effluent Analytical Results

Soil Vapor Extraction Influent and Effluent Air Analytical Results

26 July 2018

MONTHLY OPERATIONS REPORT
JULY 2018

TREATMENT PLANT ON-LINE DATA		
AIR SPARGE/SOIL VAPOR EXTRACTION SYSTEM:		
Hours online	579	
On-Line Factor for Month	80%	
On-Line Factor for Scheduled Period	90%	
Average Air Flow Rate (when operational), scfm	571	
Average Monthly LEL	0.0	
Total VOC Concentration (mg/m ^{3})	74.9	
Pounds VOC Removed	92.7	
GROUNDWATER TREATMENT SYSTEM:		
On-Line Factor for Month	79%	
On-Line Factor for Scheduled Period	89%	
Average Water Flow Rate, gpm	3.6	(1)
Total Influent Water Processed	124,469	
Total VOC Concentration (ug/L)	46.4	
Pounds VOC Removed	0.048	

Note:
(1) Calculated based on the total amount of water processed during the 89% operational period for July.

MAINTENANCE SUMMARY

Unit	Operation	
Gravity Settling Tank	*Water Decants*	Decanted water from gravity settling tank T-03 during every site visit.
	Sludge Decants	Sludge transferred from T-02 to T-09
	Notes	All empty drums currently stored on-site are properly labeled as such.

Task	Routine Monthly Maintenance Activity	Frequency
1	Dissolved iron and pH concentration monitoring in the effluent water stream.	3 *events*
2	Change-out and disposal of fouled bag filter on T-06 bypass line.	14 *events*
3	Backwash carbon vessels.	2 *events*
4	Clean GX level probes.	4 *events*
5	Routine plant housekeeping, including sweeping of floors, inventorying and arranging of all stock items and site safety equipment, etc.	1 *event*
6	Routine draining and cleaning of plant tanks and level switches. (T-01 and T-06)	2 *events*
7	Routine greasing of sludge auger (A-01) drive chain per manufacturers instructions.	1 *event*
8	Routine greasing of SVE blower per manufacturers instructions.	1 *event*
9	Drain condensate water from T-05.	9 *events*
10	Inspection and draining of all condensate lines.	4 *events*
11	Completion of nutrient amendments.	1 *event*
12	Inspection of lower site well and valve boxes for water accumulation. Includes cleaning of all seals and gaskets, purging of any accumulated water, sealing of identifiable leaks and proper reinstallation of manhole covers.	0 *events*

ADDITIONAL O&M ACTIVITIES

Programs Completed	Nutrient amendendment was performed on 18 July. The treatment system's recovered and treated groundwater and soil vapor were sampled on 26 July. A groundwater sampling event was conducted on 26 and 27 July, prior to the end of Pulse Cycle No. 19.
Programs Scheduled	Treatment system operation will resume with the start of Pulse Cycle No. 20 on or about August 27.

MONTHLY OPERATIONS REPORT
JULY 2018

EQUIPMENT NEEDING REPAIR, REPLACEMENT OR INSTALLATION/ MISCELLANEOUS OPERATIONS ISSUES
The SVE/AS sparge components of the treatment system were offline from 29 June until 3 July when programming and electrical supply problems were resolved by the utility and ERM's controls subcontractor.
Sparge well A-88 concrete pad and well box were replaced on 5 July due to deterioration from subsidence.
The Plant sump was cleaned out on 10 July.
An order of 5 and 10 micron filters was received on 23 July. Filter usage has increased greatly this period due to increased solids loading.
GX-1 pump and motor were replaced on 24 July.
Glenwood Landing Water District inspected and passed the city waters' backflow preventer on 26 July.

CHEMICAL USAGE SUMMARY

Chemical	***Pounds Used***	***Unit Cost*** *(Dollars/Pound)*	***Monthly Cost*** *(Dollars)*	***2018 Year to Date Cost*** *(Dollars)*
Ammonium Chloride	100	$1.83 /pound	$183.00	$1,281.00
Mono-Potassium Phosphate	5	$2.00 /pound	$10.00	$69.97
Di-Potassium Phosphate	5	$2.72 /pound	$13.60	$95.20
Potassium Permanganate	--	$2.80 /pound	$0.00	$0.00
Sodium Hydroxide (25%)	--	$0.26 /pound	$0.00	$0.00
Anionic Polymer	0	$4.50 /pound	$0.00	$0.00
Cationic Polymer	0	$1.36 /pound	$0.00	$0.00
		TOTAL COST	**$206.60**	**$1,446.17**

MONTHLY OPERATIONS REPORT
JULY 2018

SHUTDOWN ALARMS SOIL VAPOR EXTRACTION/AIR SPARGE SYSTEM

SYSTEM RUNNING		*SYSTEM READING*		*SVE BLOWER RUNTIME METER*	*TOTAL TIME RUNNING (1, 2)*	*ALARM LEVEL*	*ALARM SOURCE/ COMMENTS*
Date	*Time*	*Date*	*Time*	*(Hours)*	*(Hours)*		
7/1/18	0:00	7/1/18	0:00	46961.6		4	Start of monitoring period.
7/27/18	16:00	7/27/18	16:00	47540.5	578.9	4	End of Pulse Cycle No. 19 run time

SHUTDOWN ALARMS GROUNDWATER TREATMENT SYSTEM

SYSTEM RUNNING		*SYSTEM SHUTDOWN*		*SYSTEM RESTORATION*		*TIME RUNNING SINCE LAST RESTORATION*	*TOTAL TIME RUNNING (1)*	*ALARM LEVEL*	*ALARM SOURCE/ COMMENTS*
Date	*Time*	*Date*	*Time*	*Date*	*Time*	*(Hours)*	*(Hours)*		
7/1/18	0:00	7/7/18	5:46	7/9/18	7:50	149.8	149.8	2	T06 level switch fault
		7/16/18	21:41	7/17/18	7:43	181.8	331.6	2	T06 High level alarm
		7/18/18	2:19	7/18/18	11:25	18.6	350.2	2	High level T06
7/27/18	16:00					220.6	570.8		End of Pulse Cycle No. 19 run time

(1) Reporting Period = 640 hour operational period of the month.

(2) SVE run time is tracked by the hour meter in order to most accurately gauge time.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY

0311941.02

SGS Job Number: JC70855

Sampling Date: 07/26/18

Report to:

ERM, Inc.

John.Maddox@erm.com

ATTN: John Maddox

Total number of pages in report: 11

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

ERM, Inc.

Job No: JC70855

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Project No: 0311941.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC70855-1	07/26/18	06:35	JM	07/27/18	AQ	Effluent	GXEFFL072618
JC70855-2	07/26/18	06:37	JM	07/27/18	AQ	Influent	GXINFL072618

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	ERM, Inc.	**Job No**	JC70855
Site:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY	**Report Date**	8/7/2018 5:39:38 PM

On 07/27/2018, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC70855 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ **Batch ID:** V2E6373

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC70857-4MS, JC70857-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC70855
Account: ERM, Inc.
Project: AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Collected: 07/26/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC70855-1	**GXEFFL072618**					
No hits reported in this sample.						
JC70855-2	**GXINFL072618**					
Xylene (total)		46.4	1.0	0.59	ug/l	SW846 8260C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GXEFFL072618		
Lab Sample ID:	JC70855-1	**Date Sampled:**	07/26/18
Matrix:	AQ - Effluent	**Date Received:**	07/27/18
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E145257.D	1	08/01/18 01:31	DG	n/a	n/a	V2E6373
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		81-124%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GXINFL072618		
Lab Sample ID:	JC70855-2	**Date Sampled:**	07/26/18
Matrix:	AQ - Influent	**Date Received:**	07/27/18
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E145258.D	1	08/01/18 01:59	DG	n/a	n/a	V2E6373
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	46.4	1.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		81-124%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

GW

CHAIN OF CUSTODY

PD071718-4

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #
Bottle Order Control # PD-071718-4
SGS Quote #
SGS Job # JC70855

Client / Reporting Information

Company Name: SRM
Street Address: 105 MAXESS RD STE 316
City: MELVILLE State: NY Zip: 11747
Project Contact: E-mail: JOHN.MADDOX@SRM.COM
Phone #: 631 756 8900 Fax #
Sampler(s) Name(s): MADDOX Phone #

Project Information

Project Name: AES SHORE
Street: 1 SHORE RD
City: GLENWOOD LANDING State: NY
Project #: 031194.02
Client Purchase Order #
Project Manager: CHRIS.WENCZEL@SRM.COM

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet): BTEX + METHYLENE CHLORIDE

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX + Methylene Chloride	LAB USE ONLY
1	GXSFFL072618		7/26/18	0635	JMX	GW	3	3								3	
2	GXINFL072618		✓	0637	✓	✓	3	3								3	V1165

Matrix Codes: ~~DW - Drinking Water~~; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; ~~EB-Equipment Blank~~; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available via LabLink

Approved by (SGS Project Manager)/Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

NJ Data of Known Quality Protocol Reporting
Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT [initials]
LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 [signature]	Date Time: 7/27/18 1430	Received By: 1 [signature]	Relinquished By: 2 [signature]	Date Time: 7/27/18 1910	Received By: 2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 08036	☒ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☒ Cooler Temp. 3.4°C

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

5.1
5

JC70855: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC70855 **Client:** ERM, INC. **Project:** AES SHORE REALTY, 1 SHORE ROAD, GLEN

Date / Time Received: 7/27/2018 7:10:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY

0311941.02

SGS Job Number: JC70853

Sampling Date: 07/26/18

Report to:

ERM, Inc.

John.Maddox@erm.com

ATTN: John Maddox

Total number of pages in report: **11**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

ERM, Inc.

Job No: JC70853

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Project No: 0311941.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC70853-1	07/26/18	07:20	JM	07/27/18	AIR	Air	VEFFL072618
JC70853-2	07/26/18	07:22	JM	07/27/18	AIR	Air	VINFL072618

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	ERM, Inc.	**Job No**	JC70853
Site:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY	**Report Date**	8/7/2018 11:52:42 AM

On 07/27/2018, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc.. A SGS North America Inc. Job Number of JC70853 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

GC Volatiles By Method EPA TO-3

Matrix: AIR **Batch ID:** GQT2039

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC70853-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC70853
Account: ERM, Inc.
Project: AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Collected: 07/26/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC70853-1	**VEFFL072618**					
Xylenes (total)		8.8	0.10	0.016	ppmv	EPA TO-3
TPH as Equiv Pentane		6.1	5.0	0.075	ppmv	EPA TO-3
Xylenes (total)		38	0.43	0.069	mg/m3	EPA TO-3
TPH as Equiv Pentane		18	15	0.22	mg/m3	EPA TO-3
JC70853-2	**VINFL072618**					
Xylenes (total)		9.4	0.10	0.016	ppmv	EPA TO-3
TPH as Equiv Pentane		11.5	5.0	0.075	ppmv	EPA TO-3
Xylenes (total)		41	0.43	0.069	mg/m3	EPA TO-3
TPH as Equiv Pentane		33.9	15	0.22	mg/m3	EPA TO-3

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	VEFFL072618		
Lab Sample ID:	JC70853-1	**Date Sampled:**	07/26/18
Matrix:	AIR - Air	**Date Received:**	07/27/18
Method:	EPA TO-3	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QT220713.D	1	07/28/18 10:41	TCH	n/a	n/a	GQT2039
Run #2							

	Initial Volume
Run #1	0.50 ml
Run #2	

Purgeable Aromatics

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	ND	0.050	0.010	ppmv		ND	0.16	0.032	mg/m3
108-88-3	92.14	Toluene	ND	0.050	0.011	ppmv		ND	0.19	0.041	mg/m3
100-41-4	106.2	Ethylbenzene	ND	0.050	0.014	ppmv		ND	0.22	0.061	mg/m3
1330-20-7	106.2	Xylenes (total)	8.8	0.10	0.016	ppmv		38	0.43	0.069	mg/m3
	72	TPH as Equiv Pentane	6.1	5.0	0.075	ppmv		18	15	0.22	mg/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		59-135%
460-00-4	4-Bromofluorobenzene	85%		59-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VINFL072618		
Lab Sample ID:	JC70853-2	**Date Sampled:**	07/26/18
Matrix:	AIR - Air	**Date Received:**	07/27/18
Method:	EPA TO-3	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QT220715.D	1	07/28/18 11:50	TCH	n/a	n/a	GQT2039
Run #2							

	Initial Volume
Run #1	0.50 ml
Run #2	

Purgeable Aromatics

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	ND	0.050	0.010	ppmv		ND	0.16	0.032	mg/m3
108-88-3	92.14	Toluene	ND	0.050	0.011	ppmv		ND	0.19	0.041	mg/m3
100-41-4	106.2	Ethylbenzene	ND	0.050	0.014	ppmv		ND	0.22	0.061	mg/m3
1330-20-7	106.2	Xylenes (total)	9.4	0.10	0.016	ppmv		41	0.43	0.069	mg/m3
	72	TPH as Equiv Pentane	11.5	5.0	0.075	ppmv		33.9	15	0.22	mg/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		59-135%
460-00-4	4-Bromofluorobenzene	84%		59-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

AIR

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PD071718-4

PAGE 1 OF 1

E

FED-EX Tracking #

Bottle Order Control #

SGS Quote #

SGS Job # JC70853

Client / Reporting Information

Company Name: ERM

Street Address: 105 MAXESS RD STE 316

City: MELVILLE State: NY Zip: 11747

Project Contact: JOHN.MADDOX@erm.com E-mail:

Phone # 631 756 8900 Fax #

Sampler(s) Name(s): MADDOX Phone #

Project Information

Project Name: ASS STORE

Street: 1 STORE RD

City: GLENWOOD LANDING State: NY

Project #: 0311941.02

Client Purchase Order #

Project Manager: CHRIS.WENCKE@ERM.com

Attention:

Billing Information (if different from Report to)

Company Name

Street Address

City State Zip

Requested Analysis (see TEST CODE sheet)

BTEX + TPH

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
~~FB-Field Blank~~
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
	~~VSEFLO72618~~ (JMX)					SV	1					1				
1	VEFFLO72618		7/26/18	0720		SV	1					1				
2	VINFLO72618		↓	0722		SV	1					1				
																TEDLAR

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved by (SGS Project Manager)/Date:

Emergency & Rush T/A data available via LabLink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [x] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [ ] *NJ Data of Known Quality Protocol Reporting*

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary

NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT UA 1/29

LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	7/27/18 14:30	1	2	7/27/18 1910	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.
5		5	08034	[x] Intact [ ] Not intact	[ ]	

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

5.1 5

JC70853: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC70853 **Client:** ERM, INC. **Project:** AES SHORE REALTY, 1 SHORE ROAD, GLEN

Date / Time Received: 7/27/2018 7:10:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JC70853: Chain of Custody
Page 2 of 2

APPENDIX B

August 2018 Operations Report

Recovered Groundwater Influent and Effluent Analytical Results

28 August 2018

MONTHLY OPERATIONS REPORT
AUGUST 2018

TREATMENT PLANT ON-LINE DATA		
AIR SPARGE/SOIL VAPOR EXTRACTION SYSTEM:		
Hours online	25	
On-Line Factor for Month	3%	
On-Line Factor for Scheduled Period	22%	
Average Air Flow Rate (when operational), scfm	565	
Average Monthly LEL	0.0	
Total VOC Concentration (mg/m^3)	0.0	
Pounds VOC Removed	0.0	
GROUNDWATER TREATMENT SYSTEM:		
On-Line Factor for Month	15%	
On-Line Factor for Scheduled Period	100%	
Average Water Flow Rate, gpm	4.1	(1)
Total Influent Water Processed	27,495	
Total VOC Concentration (ug/L)	193.9	
Pounds VOC Removed	0.044	

Note:
(1) Calculated based on the total amount of water processed during the 100% operational period for August.

MAINTENANCE SUMMARY

Unit	Operation	
Gravity Settling Tank	*Water Decants*	Decanted water from gravity settling tank T-03 during every site visit.
	Sludge Decants	Sludge transferred from T-02 to T-09
	Notes	All empty drums currently stored on-site are properly labeled as such.

Task	Routine Monthly Maintenance Activity	Frequency
1	Dissolved iron and pH concentration monitoring in the effluent water stream.	1 *event*
2	Change-out and disposal of fouled bag filter on T-06 bypass line.	2 *events*
3	Backwash carbon vessels.	0 *events*
4	Clean GX level probes.	1 *event*
5	Routine plant housekeeping, including sweeping of floors, inventorying and arranging of all stock items and site safety equipment, etc.	0 *events*
6	Routine draining and cleaning of plant tanks and level switches. (T-01 and T-06)	1 *event*
7	Routine greasing of sludge auger (A-01) drive chain per manufacturers instructions.	0 *events*
8	Routine greasing of SVE blower per manufacturers instructions.	0 *events*
9	Drain condensate water from T-05.	1 *event*
10	Inspection and draining of all condensate lines.	1 *event*
11	Completion of nutrient amendments.	1 *event*
12	Inspection of lower site well and valve boxes for water accumulation. Includes cleaning of all seals and gaskets, purging of any accumulated water, sealing of identifiable leaks and proper reinstallation of manhole covers.	0 *events*

ADDITIONAL O&M ACTIVITIES

Programs Completed	Pulse Cycle No. 19 concluded with the start of Pulse Cycle No. 20 on 27 August. The treatment system's recovered and treated groundwater were sampled on 28 August. Soil vapor was not sampled due to the failure of the sparge compressor. Nutrient amendment was performed on 24 August.
Programs Scheduled	A groundwater sampling event will be conducted prior to the end of Pulse Cycle No. 20's 'on' period, on or about 26 October. Monthly sampling of the treatment system will be performed in late September and October.

MONTHLY OPERATIONS REPORT
AUGUST 2018

EQUIPMENT NEEDING REPAIR, REPLACEMENT OR INSTALLATION/ MISCELLANEOUS OPERATIONS ISSUES
A 300 pound shipment of ammonium chloride for use as a nutrient amendment was received on 6 August.
No sheen was observed on the harbor waters during any of the Site visits.
Four drums of non-hazardous spent bag filters were shipped from the site on 10 August.
On 21 August, eight drums of non-hazardous spent liquid phase carbon was shipped from the site. Twenty four 55 pound bags of carbon were delivered.
Preventive maintenance was performed on the sparge compressor on 24 August. The compressor subsequently failed on 28 August and is awaiting parts on order to make the repair.
The flow totalizer in GX-01 was replaced on 28 August.

CHEMICAL USAGE SUMMARY

Chemical	***Pounds Used***	***Unit Cost*** *(Dollars/Pound)*	***Monthly Cost*** *(Dollars)*	***2018 Year to Date Cost*** *(Dollars)*
Ammonium Chloride	100	$1.83 /pound	$183.00	$1,464.00
Mono-Potassium Phosphate	5	$2.00 /pound	$10.00	$79.96
Di-Potassium Phosphate	5	$2.72 /pound	$13.60	$108.80
Potassium Permanganate	--	$2.80 /pound	$0.00	$0.00
Sodium Hydroxide (25%)	--	$0.26 /pound	$0.00	$0.00
Anionic Polymer	0	$4.50 /pound	$0.00	$0.00
Cationic Polymer	0	$1.36 /pound	$0.00	$0.00
		TOTAL COST	**$206.60**	**$1,652.76**

MONTHLY OPERATIONS REPORT
AUGUST 2018

SHUTDOWN ALARMS SOIL VAPOR EXTRACTION/AIR SPARGE SYSTEM

SYSTEM RUNNING		*SYSTEM SHUTDOWN*		*SVE BLOWER RUNTIME METER*	*TOTAL TIME RUNNING* [1, 2]	*ALARM LEVEL*	*ALARM SOURCE/ COMMENTS*
Date	*Time*	*Date*	*Time*	*(Hours)*	*(Hours)*		
8/27/18	7:50			47545.2			Start of Pulse Cycle No. 20.
		8/28/18	8:37	47570.2	24.8	4	Sparge compressor air regulator failed. SVE and AS are off pending repair.

SHUTDOWN ALARMS GROUNDWATER TREATMENT SYSTEM

SYSTEM RUNNING		*SYSTEM SHUTDOWN*		*SYSTEM RESTORATION*		*TIME RUNNING SINCE LAST RESTORATION*	*TOTAL TIME RUNNING* [1]	*ALARM LEVEL*	*ALARM SOURCE/ COMMENTS*
Date	*Time*	*Date*	*Time*	*Date*	*Time*	*(Hours)*	*(Hours)*		
8/27/18	7:50								Start of Pulse Cycle No. 20.
9/1/18	0:00					112.2	112.2		End of reporting period.

(1) Reporting Period = 112 hour operational period of the month.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY

0311941.02

SGS Job Number: JC72836

Sampling Date: 08/28/18

Report to:

ERM, Inc.

John.Maddox@erm.com

ATTN: John Maddox

Total number of pages in report: **11**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

ERM, Inc.

Job No: JC72836

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Project No: 0311941.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JC72836-1	08/28/18	07:35	JX	08/30/18	AQ	Effluent	GXEFFL082918
JC72836-2	08/28/18	07:37	JX	08/30/18	AQ	Influent	GXINFL082918

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	ERM, Inc.	**Job No**	JC72836
Site:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY	**Report Date**	9/7/2018 9:36:42 AM

On 08/30/2018, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC72836 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** VT9614

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC72836-2MS, JC72972-5DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC72836
Account: ERM, Inc.
Project: AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Collected: 08/28/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC72836-1	**GXEFFL082918**					
No hits reported in this sample.						
JC72836-2	**GXINFL082918**					
Toluene		0.43 J	1.0	0.28	ug/l	EPA 624.1
Ethylbenzene		0.56 J	1.0	0.28	ug/l	EPA 624.1
Xylenes (total)		193	1.0	0.35	ug/l	EPA 624.1

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GXEFFL082918		
Lab Sample ID:	JC72836-1	**Date Sampled:**	08/28/18
Matrix:	AQ - Effluent	**Date Received:**	08/30/18
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T233500.D	1	09/04/18 19:17	CSF	n/a	n/a	VT9614
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.34	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	103%		76-122%
2037-26-5	Toluene-D8 (SUR)	103%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	101%		80-120%
1868-53-7	Dibromofluoromethane (S)	96%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GXINFL082918		
Lab Sample ID:	JC72836-2	**Date Sampled:**	08/28/18
Matrix:	AQ - Influent	**Date Received:**	08/30/18
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T233486.D	1	09/04/18 12:09	CSF	n/a	n/a	VT9614
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.34	ug/l	
108-88-3	Toluene	0.43	1.0	0.28	ug/l	J
100-41-4	Ethylbenzene	0.56	1.0	0.28	ug/l	J
1330-20-7	Xylenes (total)	193	1.0	0.35	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	105%		76-122%
2037-26-5	Toluene-D8 (SUR)	100%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	102%		80-120%
1868-53-7	Dibromofluoromethane (S)	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

GW

TM-082718-64

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JC72836

Client / Reporting Information

Company Name: ERM
Street Address: 105 MAXESS RD STE 316
City: MELVILLE State: NY Zip: 11747
Project Contact: JON.MADDOX@ERM.COM E-mail:
Phone #: 631 756 8900 Fax #:
Sampler(s) Name(s): MADDOX Phone #:

Project Information

Project Name: AES SHORE TREATMENT
Street: 1 SHORE RD
City: GLENWOOD LANDING State: NY
Project #: 0319410.02
Client Purchase Order #:
Project Manager: CHRIS.WENZEL@ERM.COM

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

BTEX + METHANOL + OXYGENATES

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED- Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE		LAB USE ONLY
1	GWSAFL082918		8/29/18	0735	JMX	GW	3	3								3	
2	GWINFL082918		8/29/18	0737	JMX	GW	3	3								3	
																	V199

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available via LabLink

Approved by (SGS Project Manager)/Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [x] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT DOM 8/30
LEVEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

1 Relinquished by Sampler:	Date Time: 8/29/18	1050 Received By:	2 Relinquished By:	Date Time: 8/30/18 16:10	2 Received By:		
3 Relinquished by Sampler:	Date Time:	3 Received By:	4 Relinquished By:	Date Time:	4 Received By:		
5 Relinquished by:	Date Time:	5 Received By:	Custody Seal # Cle 448	[ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x]	Cooler Temp. 2.7°C IR

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

5.1 5

JC72836: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC72836 **Client:** ERM, INC. **Project:** AES SHORE REALTY, 1 SHORE ROAD, GLEN

Date / Time Received: 8/30/2018 4:10:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.7);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JC72836: Chain of Custody
Page 2 of 2

APPENDIX C

September 2018 Operations Report

Recovered Groundwater Influent and Effluent Analytical Results

26 September 2018

MONTHLY OPERATIONS REPORT
SEPTEMBER 2018

TREATMENT PLANT ON-LINE DATA		
AIR SPARGE/SOIL VAPOR EXTRACTION SYSTEM:		
Hours online	0	
On-Line Factor for Month	0%	
On-Line Factor for Scheduled Period	0%	
Average Air Flow Rate (when operational), scfm	0	
Average Monthly LEL	0.0	
Total VOC Concentration (mg/m ^{3})	0.0	
Pounds VOC Removed	0.0	
GROUNDWATER TREATMENT SYSTEM:		
On-Line Factor for Month	85%	
On-Line Factor for Scheduled Period	85%	
Average Water Flow Rate, gpm	3.9	(1)
Total Influent Water Processed	142,959	
Total VOC Concentration (ug/L)	50.1	
Pounds VOC Removed	0.060	

Note:
(1) Calculated based on the total amount of water processed during the 85% operational period for September.

MAINTENANCE SUMMARY

Unit	Operation	
Gravity Settling Tank	*Water Decants*	Decanted water from gravity settling tank T-03 during every site visit.
	Sludge Decants	Sludge transferred from T-02 to T-09
	Notes	All empty drums currently stored on-site are properly labeled as such.

Task	Routine Monthly Maintenance Activity	Frequency
1	Dissolved iron and pH concentration monitoring in the effluent water stream.	4 *events*
2	Change-out and disposal of fouled bag filter on T-06 bypass line.	10 *events*
3	Backwash carbon vessels.	2 *events*
4	Clean GX level probes.	4 *events*
5	Routine plant housekeeping, including sweeping of floors, inventorying and arranging of all stock items and site safety equipment, etc.	0 *events*
6	Routine draining and cleaning of plant tanks and level switches. (T-01 and T-06)	3 *events*
7	Routine greasing of sludge auger (A-01) drive chain per manufacturers instructions.	1 *event*
8	Routine greasing of SVE blower per manufacturers instructions.	0 *events*
9	Drain condensate water from T-05.	0 *events*
10	Inspection and draining of all condensate lines.	0 *events*
11	Completion of nutrient amendments.	1 *event*
12	Inspection of lower site well and valve boxes for water accumulation. Includes cleaning of all seals and gaskets, purging of any accumulated water, sealing of identifiable leaks and proper reinstallation of manhole covers.	0 *events*

ADDITIONAL O&M ACTIVITIES	
Programs Completed	The treatment system's recovered and treated groundwater were sampled on 26 September. Soil vapor was not sampled due to the failure of the sparge compressor, which is awaiting parts for repair. A Nutrient amendment was performed on 24 September.
Programs Scheduled	A groundwater sampling event will be conducted prior to the end of Pulse Cycle No. 20's 'on' period, on or about 26 October. Monthly sampling of the treatment system will be performed in late October.

MONTHLY OPERATIONS REPORT
SEPTEMBER 2018

EQUIPMENT NEEDING REPAIR, REPLACEMENT OR INSTALLATION/ MISCELLANEOUS OPERATIONS ISSUES
The sparge compressor has been off-line since 28 August and is awaiting repair parts which are not readily available for this older model; repairs are expected to take place in the first week of October.
No sheen was observed on the harbor waters during any of the fifteen Site visits in September.
Overgrowth was cut back several times during the month.
The groundwater treatment system has experienced numerous nusiance shutdowns from accumulated sediment interfering with the T-06 Low Level switch. On 26 September the sidewall horizontal reed switch was replaced with a drop-in, tethered float switch. No related shutdowns have occurred since.
The pumps in GX-0 and GX-1 were replaced on 25 September. A replacement motor for the groundwater recovery pumps was received on 28 September.

CHEMICAL USAGE SUMMARY

Chemical	***Pounds Used***	***Unit Cost*** *(Dollars/Pound)*	***Monthly Cost*** *(Dollars)*	***2018 Year to Date Cost*** *(Dollars)*
Ammonium Chloride	100	$1.83 /pound	$183.00	$1,647.00
Mono-Potassium Phosphate	5	$2.00 /pound	$10.00	$89.96
Di-Potassium Phosphate	5	$2.72 /pound	$13.60	$122.40
Potassium Permanganate	--	$2.80 /pound	$0.00	$0.00
Sodium Hydroxide (25%)	--	$0.26 /pound	$0.00	$0.00
Anionic Polymer	0	$4.50 /pound	$0.00	$0.00
Cationic Polymer	0	$1.36 /pound	$0.00	$0.00
		TOTAL COST	**$206.60**	**$1,859.36**

MONTHLY OPERATIONS REPORT
SEPTEMBER 2018

SHUTDOWN ALARMS SOIL VAPOR EXTRACTION/AIR SPARGE SYSTEM

SYSTEM RUNNING		*SYSTEM SHUTDOWN*		*SVE BLOWER RUNTIME METER*		*TOTAL TIME RUNNING* [1, 2]	*ALARM LEVEL*	*ALARM SOURCE/ COMMENTS*
Date	*Time*	*Date*	*Time*	*(Hours)*		*(Hours)*		
--	--	--	--	--	--	--	--	The SVE/AS systems were off during the period and awaiting repair of the sparge compressor.
--	--	--	--	--	--	--	--	
--	--	--	--	--	--	--	--	

SHUTDOWN ALARMS GROUNDWATER TREATMENT SYSTEM

SYSTEM RUNNING		*SYSTEM SHUTDOWN*		*SYSTEM RESTORATION*		*TIME RUNNING SINCE LAST RESTORATION*	*TOTAL TIME RUNNING* [1]	*ALARM LEVEL*	*ALARM SOURCE/ COMMENTS*
Date	*Time*	*Date*	*Time*	*Date*	*Time*	*(Hours)*	*(Hours)*		
9/1/18	0:00	9/5/18	8:19	9/6/18	13:35	104.3	104.3	2	T06 level switch
		9/19/18	22:43	9/20/18	15:20	321.1	425.5	2	T06 level switch
		9/21/18	17:00	9/24/18	8:10	25.7	451.1	2	T06 level switch
10/1/18	00:00					159.8	611.0		End of period

(1) Reporting Period = 112 hour operational period of the month.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY

0311941.02

SGS Job Number: JC74750

Sampling Date: 09/26/18

Report to:

ERM, Inc.

Eric.Marcus@erm.com

ATTN: Eric Marcus

Total number of pages in report: **11**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

ERM, Inc.

Job No: JC74750

AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Project No: 0311941.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC74750-1	09/26/18	07:45	JMX	09/28/18	AQ	Effluent	GXEFFL092618
JC74750-2	09/26/18	07:47	JMX	09/28/18	AQ	Influent	GXINFL092618

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	ERM, Inc.	**Job No**	JC74750
Site:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY	**Report Date**	10/2/2018 5:21:53 PM

On 09/28/2018, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.5 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC74750 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** VN11472

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC74726-4DUP, JC74750-2MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC74750
Account: ERM, Inc.
Project: AES Shore Realty, 1 Shore Road, Glenwood Landing, NY
Collected: 09/26/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC74750-1	**GXEFFL092618**					
No hits reported in this sample.						
JC74750-2	**GXINFL092618**					
Toluene		0.52 J	1.0	0.28	ug/l	EPA 624.1
Ethylbenzene		0.30 J	1.0	0.28	ug/l	EPA 624.1
Xylenes (total)		49.3	1.0	0.35	ug/l	EPA 624.1

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GXEFFL092618		
Lab Sample ID:	JC74750-1	**Date Sampled:**	09/26/18
Matrix:	AQ - Effluent	**Date Received:**	09/28/18
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	AES Shore Realty, 1 Shore Road, Glenwood Landing, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N272170.D	1	10/01/18 13:49	CSF	n/a	n/a	VN11472
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.34	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	93%		76-122%
2037-26-5	Toluene-D8 (SUR)	97%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	84%		80-120%
1868-53-7	Dibromofluoromethane (S)	96%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GXINFL092618
Lab Sample ID: JC74750-2 **Date Sampled:** 09/26/18
Matrix: AQ - Influent **Date Received:** 09/28/18
Method: EPA 624.1 **Percent Solids:** n/a
Project: AES Shore Realty, 1 Shore Road, Glenwood Landing, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N272171.D	1	10/01/18 14:19	CSF	n/a	n/a	VN11472
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.34	ug/l	
108-88-3	Toluene	0.52	1.0	0.28	ug/l	J
100-41-4	Ethylbenzene	0.30	1.0	0.28	ug/l	J
1330-20-7	Xylenes (total)	49.3	1.0	0.35	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	92%		76-122%
2037-26-5	Toluene-D8 (SUR)	97%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	83%		80-120%
1868-53-7	Dibromofluoromethane (S)	94%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

CHAIN OF CUSTODY

PD-092018-67

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JC74750

Client / Reporting Information

Company Name: ERM
Street Address: 105 MAXESS RD STE 316
City: MELVILLE State: NY Zip: 11747
Project Contact: JOHN.MADDOX@ERM.COM E-mail:
Phone #: 631 756 8906 Fax #:
Sampler(s) Name(s): MADDOX Phone #:

Project Information

Project Name: RES STORE TREATMENT
Street: 1 STORE RD
City: GREENWOOD LAKE State: NY
Project #: 0311941.02
Client Purchase Order #:
Project Manager:
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:

Requested Analysis (see TEST CODE sheet)

BTEX Naphthalene Chloride

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	GWEFFLO92618		9/26/15	0745	JMX	GW	3	3								
2	GWINFLO92618		↓	0747	↓	↓	3	3								V478

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved by (SGS Project Manager)/Date:

Emergency & Rush T/A data available via LabLink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [x] NYASP Category B
- [x] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment 3 Days
Label Verification

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		9/27/15 11:00	1 Chris Lau	2 Chris Lau	9/27/15 1745	2
3	Relinquished by Sampler:	Date Time:	3 Received By:	4 Relinquished By:	Date Time:	4 Received By:
5	Relinquished by:	Date Time:	5 Received By:	Custody Seal # 13862	[x] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [x] Cooler Temp. 4.1 °C

Form:SM088-03C (revised 2/12/18)

http://www.sgs.com/en/terms-and-conditions.

5.1 5

SGS Sample Receipt Summary

Job Number: JC74750 **Client:** ERM, INC. **Project:** AES SHORE REALTY, 1 SHORE ROAD, GLEN

Date / Time Received: 9/28/2018 5:15:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17