

U.S. Army Corps of Engineers New England District

REMEDIAL ACTION CLOSURE REPORT

REMEDIATION & RESTORATION SITES AOC 9, AOC 11, AOC 40, AOC 41, SA 12, SA 13 VOLUME III

LANDFILL REMEDIATION PROJECT DEVENS RESERVE FORCES TRAINING AREA DEVENS, MASSACHUSETTS

Prepared Under:

CONTRACT NO. DACW33-97-D-0002 DELIVERY ORDER NO. 0010

SEPTEMBER 2003

Prepared By:

Shaw Environmental, Inc.
Stone & Webster Construction, Inc.

LFC 03094 SEIP

Vol III of III



U.S. Army Corps of Engineers New England District

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M18896849 This certificate is to verify the wastes specified on Manifest #

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: Michigan Disposal Waste Treatment Plant Wayne Disposal, Inc. (EPA I.D. # MID000724831) (EPA I.D. # MID048090633) (Please check one) 49350 N. I-94 Service Drive ADDRESS: Belleville, Michigan 48111 PHONE NUMBER: 1-800-592-5489 FAX NUMBER: 1-800-592-5329 Authorized Signature:



DE D

I MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN ATT-100-282-4705 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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3. Generator's Name and Mailing Address 1) 5 4, 60 4 William (FF Mail) 1 (1) 4 (1) 4 (1) 4 (1) 4 (1) 6	Hario Unitio			nes (140 elmen) Vull e ciors	
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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. MA7210025154	Manifest Document No	2 OF 3	areas is i	ion in the shaded not required by Federal
3. Generator's Name DEVINS LA 80 A WALKE SHIRLEY, M	ANDFILL - USACOE US ARI R ROAD 30 QUE A 01464 AYER,	ADDRESS MY DEVINS RETA BEC ST UNIT 10 MA 01432	L State Ma	88	nent (lumber 9.633)
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This certificate is to verify the wastes specified on Manifest #_______ SSS have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:	
(Please check one)	

Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive

Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature:





ALL ST. 1.5 MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1.800-202-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE
CEN T 1-800-424-8802 24 HOUR PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
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Failure to file may subject you to criminal and/or civil penaltice surder Sections \$24,17151 or \$24,12116 MCL

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), Facility Owner or Operator: Certification of re	ceipt of hazardous materials covered by the	nis manifest except as note	d in Item 19.	Ē	Date
Printed/Typed Name	- Signature			M	lonth Day

This certificate is to verify the wastes specified on Manifest #_

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Ir (EPA I.D. # MID048090633
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	ic.
Authorized Signature:		- 4





S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 317-373-7940 AND THE NATIONAL RESPONSE

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE ATT. DIS. REJ. PR. D

Failure to file may subject you to criminal and/or civil penalties Linder Sections 324.11151 or 324.12118 MCL

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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Dispo (EPA I.D. # MID04
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Failure to file may subject you to criminal and/or civil penalties under Bections 324,11151 or 324,12116 MCL.

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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, In (EPA I.D. # MID04809063:
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	



35. Discrepancy Indication Space

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20. Facilit	y Owner or Operator: Certification	n of receipt of hazardous m	aterials covered by this mani	lest except as noted in	i ftem 19.		Date

Signature

Signature

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name

LIKEVIT

35. Discrepancy Indication Space

Date

Month Day Year

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This certificate is to verify the wastes specified on Manifest # W886631	
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have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
	1/	



Authorized Signature:



S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHID[®] 4 AT 1-400-492-4106 OR OUT OF STATE AT 517-372-7460 AND THE MATIONAL RESPONSE.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

Failure to file may subject you to criminal and/or civil penalities under Sections 324.11151 or 324.12116 MCL

REJ. D - PR. D ... or consider Mease print or type. Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator's US EPA ID TVo. Manifest Information in the shaded areas Document No. Is not required by Federal law." WASTE MANIFEST 3. Generator's Name and Mailing Address 1) 1111 lig anti, the wild by the MURRIEL APEN **建设 Martin 特別的 18** · 以别即注意)。同户内发生 MRI 1-11 B. State Generators ID: 1 300 SHIFF IN WING CHILL 4. Generator's Phone 5. Transporter Licolopany Name MA LIS EPA IDINumber C. State Trensporters ID ß. D: Transconer's Phoriet of 7. Transporler's Edinpany Name (All LA) US EPAID Number / 12.1 8. F. Transponer's Phone: 9. Designated Fadility Name and Site Address Site 1975 A 13/1591 Co. And. G State Facility: IC+ US EPA ID Number 超级: 仲於用 的 重制水柱 即 定 H. Facility's Prione BEGGE WIFE SMILTIGEN BOILD Patentant/24831 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). 12. Containers 13. Total . 14. Unit HM No. Type Quantity WI/Vo HÁ TOZASODIE WOSIĘ SCHLO, BU Z (10) ont CENH, I. MARIT, POB b. GEZERATOR C. d 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Day -Year Signature Month 17. Transporter 1 Acknowledgment of Receipt of Materials Date Printed/Typed Name Day Year Signature Month 1100 18 Transporter 2 Acknowledgment of Receipt of Materials Date Printed/Typed Name Day Signature Month 20011 19. Discrepancy Indication Space 39 PCV VIII 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in liem 19. Signature

GENERATOR 2nd COPY

35. Discrepancy Indication Space

EPA Form 8700-22A (Rev 09-88) Previous editions are obsolete

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator's US'E	10015151	Manifest Docu		22. Page OF 3	mounia		shaded red by Federal
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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID MA7 21002	MARKE ANDESS	21	22. Page 2 OF 3	law.	on in the ot requir	shaded ed by Federal
23. Generator's Name DE VINS LA BUA WALKEI SHIRLEY, MA 401	OCHILL - USACCIE CROAD OI484 . 841-1791	OS AGMY DEVIND 30 OUEBEC ST UN AYER, MA 15H32	T (i)	mz	anifest Docum		iber
24. Transporter Company Name 26. Transporter Company Name	NENT INC	25 US EPAID NO 27. US EPA ID No	71 1	O. Transp	ransporter M orter's Phone ransporter's IL	1889	Carlotte of
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28. US DOT Description (Including Pro	pper Shipping Name, Hazard	Class, and ID Number)	29. Cont No.	Type	30. Total Quantity	31. Unit Wt/Vol	Waste No
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	verify the wastes specified on Manifest #	M1889	
have been proper	rly disposed of in accordance with all local,	state and fede	ral regulations.
"Disposed	of" means either: 1) Burial or 2) Processed as sp	ecified in 40 CF	TR et seq.
FACILITY NAME:	Michigan Disposal Waste Treatment P		☐ Wayne Disposal,
(Please check one)	(EPA I.D. # MID000724831)	iant	(EPA I.D. # MID0480900
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329	14.0	
	A M	00	
Authorized Signature:	Mary and ta	llar	





S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4709 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR. D

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

Please print or type.		10.00	Fo	m Approved. OMB	No. 2050-0039
UNIFORM HAZARDOUS 1. Ger WASTE MANIFEST	nerator's US EPA ID No.	Manifest Document No.	2. Pag	5 1 11.00	nation in the shaded areas I required by Federal law.
3. Generator's Name end Mailing Address 80 (1) F (1) (1) (1) \$1181 F (1) (1) (1) 4. Generator's Phone (density dame so the control of the c	ir	M		ent Number 8 2 8
5. Tagapories Company Name	6. US EPA ID I	Number	C. Stat	e Transporter's ID	100
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To the present and future threat to human health and the generation and select the best waste management meth	environment; OR; if I am a small out thood that is available to me and that I	can afford.	nave mad	de a good faith ef	fort to minimize my waste Date
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17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name	Signature	11/1/1	-	/	Month Day, Yea
18 Transporter 2 Acknowledgment of Receipt of Materials		The state of	Lily		Date
Printed/Typed Name WALTER SCOTT	Signature	V. J. satt	TA	aunmest	Month Day Yes
19. Discrepancy Indication Space Chow (15 pen4)	~,51))				
20. Facility Owner or Operator: Certification of receipt of haz	ardous materials covered by this man	nifest except as note	d in Item	19.	
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23.	Generator's Name DEVINS LA 80 A WALKER SHIRLEY, MA 401	U1464	MALENG ADDRESS US ARMY DEVINS 30 QUEBEC ST UN AYER, MA 01432	RFTA VIT 10	//h M. State	Manifest Docu 2 9 Generator's ID	828	
24.	Transporter 5 Company Name		25. US EPA ID N	V 2217 - + D	-	Transporter's I	D	14.1 ** 1.50 H
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26.	Transporter Company Name		27. US EPA ID N	lumber		Transporter's I		
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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. MAJ 21/1025 151	Manifest Document N	0, 22, Page 0 OF 3	THE RESERVE AND ADDRESS OF A PARTY OF THE PA	ion in the not requir	shaded ed by Federal
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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	6

Authorized Signature:





MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIC** AT 1-800-202-4706 OR OUT OF STATE AT 5 17-37-37-37-38-30 AND THE NATIONAL RESPONSE 11-800-424-8302 24 HOUR PER DAY.

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF

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23.	Generator's Name DEVINS LAN 80 A WALKER SHIRLEY, MA 401	RUAD 30 QL	MG ADDRESS RMY DEVINS R UEBEC ST UNIT R, MA 01432	ETA.	1 /7	lanifest Docu L 3 2 5 Generator's IC	400	nber	
24.	Transporter Company Name CSX TRANSPORTATION		25. US EPA ID Nun FLD00692134		N. State	Transporter's porter's Phone	D4-359	3100	
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3. Generator's Name DE WILLS L. S. SHIP2 L. X. S.	IDFILL USACOE US A TROME SU G THARE THARE	MAN DESAS RETA DEBEC STORAT 40 R. MA 01452	771 M. State	lanifest Docur	1/4/	
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This certificate is to verify the wastes specified on Manifest #_______ 88 98 88 99 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seg. Michigan Disposal Waste Treatment Plant **FACILITY NAME:** (EPA I.D. # MID000724831) (Please check one) ADDRESS: 49350 N. I-94 Service Drive Belleville, Michigan 48111 PHONE NUMBER: 1-800-592-5489 FAX NUMBER: 1-800-592-5329

Authorized Signature:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

" AT 1-800-292-4709 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE

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BE REPORTED TO THE MICHIGAN POLLUTION 424-8802-24 HOUR REH DAY.

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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Dispos
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	Bay	





S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4708 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE. T 1-800-424-4332 24 HOUR PER DAY.

EPA Form 8700-22 (Rev. 9/88)

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Feature to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

Please print or type. 500 Form Approved. OMB No. 2050-0039 Manifest Document No. UNIFORM HAZARDOUS 1. Generator's US EPA ID No. "Information in the shaded areas WASTE MANIFEST is not required by Federal law. State Manifest Document Number 3. Generator's Name and Mailing Address MERCHARIA DE MOTOMBLE the safety filter and room. 数: Want DFP (n) a () B. State Generalor's ID merates an eta SHIPTE HAS STONE ABE IN 5, Transporter 1 Company Name 6. US EPA ID Number D. Transporters Phone 1 GW CYBISTEN E. State Transporters 10 7. Transporter 2 Company Name 8. US EPA ID Number F. Transporters Phone SPRINGFILED II RAMBIAI 345084178732 9. Designated Facility Name and Site Address 10. US EPA ID Number G. State Facility's ID MICHAELING OF THE PRESENT PLANT **机形** 印光田 M ,在位下在 DEC 定 H. Facility's Phone **到107/97/54**诺 BELLE MIN LIKE THOMAS TOTAL MUMPRITZ4811 US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). 12. Containers 13. Total HM No. Type HO. HAZARIJOH SIBRRIF SON Q. BOX 55 Co B.EAUN, J. MARKETT, STORY 001 b. GHZHRATOR L C U d 3 144 J. Additional Descriptions for Materials Listed Above DECEMBER APPEAR HALCON M. 15. Special Handling Instructions and Additional Information The Samuel Heart Cheresens Changes. ERIS 排門 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Signature Month Day Year at sent 17. Transporter 1 Acknowledgment of Receipt of Materials Date TRANSPORTER Printed/Typed Name Signature Day Year (DEILGE 18 Transporter 2 Acknowledgment of Receipt of Materials Date Printed/Typed Name Day Yea Signature Month 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Day Yea Signature Month

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UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. MANT 210325 [61	Manifest Document No	OF 3	law.	not requir	ed by Federal
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Printed/Typed Name	Signature	Month Day Year

35. Discrepancy Indication Space

DISPOSA

This certificate is to verify the wastes specified on Manifest # 1889	
have been properly disposed of in accordance with all local, state and federal regulations.	
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.	

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	Keun	*





A MUST BE REPORTED TO THE MICHIGAN POLLUTION EMENGENCY ALERTING SYSTEM, IN MICHION AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE T 1-800-224-3502 24 HOUR PER DAY.

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EPA For (18700-22 (Part. 9/88))

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE ATT. DIS. REJ. PR. D Failure to file may subject you to criminal and/or civil penalties innes Sections 324 (1151 or 121, 12) 14 MCL

See to Please print or type. Form Approved. OMB No. 2050-0039 Manifest 1. Generator's US EPA ID No. UNIFORM HAZARDOUS 2 Page 1 Information in the shaded areas Document No. is not required by Federal law. WÄSTE MANIFEST 3. Generator's Name and Mailing Address 113 ACO A' State Manifest Document Numb 居。確認 肝 動造的 10 AL - IFF MIMI 3) 见时候自己的原则 Statte, but unsal DOM: DO B. State Generator: ID 14 105 英俚作 (1~0)过渡 10 4. Generator's Phone c. State fransponers ID 6. 5. Transporter 1 Company Name US EPA ID Number D. Transporters Phone 7. Transporter 2 Demony Name TVIINIA 8. US EPAIID Moreben / 323 F. Transporters Phone 9. Designated Facility Name and Site Address. 15 1912-11817 11, 110. US EPA ID Number G. State Facility's ID 地球の10mmHITELL SEPOME DEME Historial Property 福山田田田学報出 BELLEVILL 2017年10日 報日日 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). 12. Containers HM No. Type 3.3 BELL MACHINEOUS WAS ILL STREET, HIS S. a. ALEXUN, A. MINNEY, DETR (9) 1 L GENERATOR b. 11 C. d. 3.6 J-Additional Descriptions for Materials Listed Above ALEO SHPLICE FOR ON THE PARTY OF 15. Special Handling Instructions and Additional Information SERE MY 747431 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Signature Month Day **Vea** 1 41.4 17: Transporter 1 Acknowledgment of Receipt of Materials Date Brinted/Typed Name Day Yea Signature Month WALTE 95 UYUISC 0 18 Transporter 2 Acknowledgment of Receipt of Materials Date Printed/Typed Name Month Day Signature WALTER 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous malerials covered by this manifest except as noted in them 19. Date Printed/Typed Name Signature Monti

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23. 0	Generator's Name DEVINS LAV 80 A WALKER SHIRLEY, MA	NDFILL - USACOE US ARI	ADDRESS MY DEVINS RETA BEC ST UNIT 10 MA 01432	mz	mifest Docu 7796 enerator's ID	
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This certificate is to verify the wastes specified on Manifest # 1 86 6826 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment (EPA I.D. # MID000724831)	Plant Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	- *
Authorized Signature:	Kuk	*



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MICHIGAN DEPARTMENT OF DO NOT WRITE IN THIS SPACE

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Security superint is The HE Form Approved. "This lift a work of order of a strong of a e Manifest in information in the shaded areas UNIFORM HAZARDOUS is not required by Federal law. WASTE MANIFEST 96825 3. Generators Name and Walling Abibess. - USACON US ANALY DESMIS RETA BOA WALKER ROAD Marine Archies Markey, My 01454 (队) 理机 AVEIL HA OLIE 772 0143 **"哈拉拉"的** 4. Generator's Phone 5. Tahalolah ibilan ny Name **6.** # 6 WYTERERPHY 349 A .. US MARIENTIAGE 1/323 complete to a figure of 9. Designated Facility Mathe bird Sale Address ASTE TREATMENT PLAND. JOSE WORTH BY SERVICE DRIVE RELEVALE, MICHIGAR JESTI MINERY MALE 11: US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). Part of the section re incarboda warie bolen, ber a O.F.M.), O. MUMIT, PGIII once high avoids have an b. 469 465 **自然的的影響的表現的表現**的可能 7.9 Special Handling Instructions and Additional Information tronicat albeigetanesed at laboration occulied by a proposite for a first of \$1.00 and 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are contents of this consignment are fully and accurately described above by proper shipping name and are contents of the contents . 4 water and an in Month Printed/Typed Name Year Signature Day 17. Transporter 1 Acknowledgment of Receipt of Materials ⇒ Printed/Typed Name

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have been prope	verify the wastes specified on Manifest # \text{Y} \text{V}	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	

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Authorized Signature:



ALL ST. IS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4708 DRI DLI OF STATE AT STATE AT

WASTE MANAGEMENT DIVISION

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Failure to file may subject you to criminal and/or civil penalties under Sections 324, 11151 or 324, 12116 MCL

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	UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. MA7210025154	Manifest Docume		30F3	areas is	20000	ed by Federal
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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, In (EPA I.D. # MID048090633
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	Kan	



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"ATT-BOG-292-4706 OR OUT OF STATE AT 517-373-7600 AND THE NATIONAL RESPONSE

MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIC 1-800-424-8502 24 HOUR PER DAY.

ALL

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ATT. DIS. REJ. PR. D

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12118 MCL

Please offrit or type. Form Approved. OMB No. 2050-0039 Manifest Document No. **UNIFORM HAZARDOUS** 1. Generator's US EPAID No. Information in the shaded areas is not required by Federal law. WASTE MANIFEST 3. Generator's Name and Mailing address - 115/4. (16 810 World Free [10,81] MANAGER DEVIDED TO makes There M SIMPLE . LE . HI LE ! 1997 70 B. State Constators ID. A . 与F性, 449 m 472 1/2014 4. Generator's Phone (5. Talifortell i Chimpany Name C. State Transporters ID 6. INAUSEPAID Number D. Transponer's Phone 7. Transpiblish Steampah) Name 1011-11 US BAID Number 123 E State Transporters ID B. F. Transporter's Phone 9. Designated Facility Name and Site Address 11. IME 1141 FILE PL-10. US EPA ID Number G. State Facility's ID. **加河 的足引 (7) 主要水进 ()对重** MINUMERALIST BELLE WIE WILLIAM RITT H. Facility's Phone 12. Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). Total No. Type Quantity na notahnolis masil sodu, da s a. T B.FAID, S. MARILL PRIN 1111 L b. GHZER C. Charles a d Bir S. 15. Special Handling Instructions and Additional Information The state of the same 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government, regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste properties and select the host waste management method that is available to me and that I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can allord. Date Printed/Typed Name Day Yea Signature Month 17. Transporter 1 Acknowledgment of Receipt of Materials Date Printed/Typed Name Signature Month Day 18 Transporter 2 Acknowledgment of Receipt of Materials Date Printed/Typed Name Signature Month Day Yea INTALA PAR 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Day Printed/Typed Name Signatúr Month

GENERATOR 2

	NIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. MA7210025154	Manifest Doc	27	22. Page 2 OF 3	1,000,000,000,000	ion in the shaded not required by Federal	
23. Ge	SHIRLEY, MA	NDFILL - USACOE USA ROAD 30 C 01484 AYE 841-1791	ARMY DEVINS RI DUEBEC ST UNIT R, MA 01432	FTA 10	mI	17.2	nent Number	
24. Tr	ansporter Company Name CSX TRANSPORTATION		25. US EPA ID Num FLD00692134		N. State T	ransporter's I	D 14-359-3100	a tris
	ansporter Y Company Name		27. US EPA ID Num		P. State T	ransponer's l	0. 数据数1. 计	715019
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This certificate is to verify the wastes specified on Manifest #_ have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	Alla Marie Fallar	





MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1.200.224-220 OF DUTOF STATE AT STA

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. □ DIS. □ REJ. □ PR. □

Failure to file mile subject you to priminal and/or call penalties under in Sections 324 17151 or 324 12116 MCI

Please print or type. 10 Form Approved. OMB No. 2050-0639 UNIFORM HAZARDOUS Manifest Information in the shaded areas Document No. is not required by Federal law. WASTE MANIFEST 3. Generator's Name and Mailing Address 113.450E 功益。說個,但是他的用了。 DIS WALFER RUSH 到 GOTTE L. SITTED WE STAPLIST, Mr. OLALA DINOL AD ATTEN MA GLASS 7720148 4. Generator's Phone 5. Vanuporter 1 Company Name WALUS EPA ID Number 7. Tahabiday(2)Company Warne WINLIN US ERAID Murbber 73.23 eve Transporters (D) Main 9. Designated Facility Name, and Site Address and TREATMENT PLAN. US EPA ID Number 40次),所属用1213的中枢产品的生 BELLEVALE AND MICHAEL BOTT MIDHN724831 In Eschive From 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). 12. Containers 13. Total HM No. Quantity Type 29 HO, RAZAROĐUS WASTE SORU, M.O.S. 2. 1.EATh, 9, MA3977, PSIII b. GENERATOR 65 M C. d 14.72 1997年前1998年 15, Special Handling Instructions and Additional Information The state of the s 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Day Signature Month Year TALT 17. Transporter 1 Acknowledgment of Receipt of Materials Date THANSPORTED Printed/Typed Name Signature 18 Transporter 2 Acknowledgment of Receipt of Materials Date Printed Typen Name Month pay ! Signature Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Signature

GENERATOR 2007 COP

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This certificate is to verify the wastes specified on Manifest # have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	AmaMarie Fallor	



DISPOSAT

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have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

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ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	AmaMarie Fallor	





Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012A

BILL OF LADING (pursuant to 310 CMR 40,0030)

	Release	Tracking Number
NA	-	

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATE	ON WASTE WAS GENERATED:
*	
Release Name (optional): Area of Concern ((AOC-9)	
Street: 80A Walker Road	Location Aid:
City/Town: Shirley	ZIP Code: 01464
Date/Period of Generation: 8/5/02 to: 12/30	les
Additional Release Tracking Numbers Associated with this Bill of Lading:	/ ~ .
* Note: If this Bill of Lading is the result of a Limited Removal Action (LRA)	taken prior to Notification, a Release Tracking Number is not needed.
B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED W	VITH BILL OF LADING:
Name of Organization: Stone & Webster Construction, I	
Name of Contact: Jim Henebury	Title: Project Manager
Street: 45 Patton Road	
	State: MA ZIP Code: 01432
Telephone: (978) 784-0900 Ext.: 910	State Zii Goods
C. RELATIONSHIP TO RELEASE OF PERSON CONDUCTING RE	SPONSE ACTION ASSOCIATED WITH BILL OF LADING:
RP or PRP Specify: Owner Operator Generator	
Fiduciary, Secured Lender or Municipality with Exempt Status (as defined	
Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E,	
Other Person: Contractor for Generator- US Arm	y Corps of Engineer
If an owner and/or operator is not conducting the response action a	ssociated with the Bill of Lading, provide on an attachment the name.
contact person, address and telephone number, inclu	ssociated with the Bill of Lading, provide on an attachment the name. uding any area code and extension, for each, if known.
contact person, address and telephone number, inclu	
contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION:	uding any area code and extension, for each, if known.
D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren	uding any area code and extension, for each, if known.
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Janice Farren	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.:	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person:	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street	g (DOT reg. # - 3171030 Title: Industrial Coordinator State: ZIP Code: Title:
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street City/Town: Woburn 378 375 4611	g (DOT reg. # - 3171030 Title: Industrial Coordinator State: ZIP Code: Title:
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street City/Town: Woburn Telephone: 978 375 4611 Ext.:	g (DOT reg. # - 3171030
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Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street City/Town: Woburn Telephone: 978 375 4611 Ext.: Type of Facility: Asphalt Batch/Cold Mix Landfill/Dispose	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: Ext.: Excelving Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street City/Town: Woburn Telephone: 978 375 4611 Ext.: Type of Facility: Asphalt Batch/Cold Mix Landfill/Dispose (check one)	g (DOT reg. # - 3171030 Title: Industrial Coordinator State: MA ZIP Code: 02767 Title:
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street City/Town: Woburn Telephone: 978 375 4611 Ext.; Type of Facility: Asphalt Batch/Cold Mix Landfill/Disposa (check one) Asphalt Batch/Hot Mix Landfill/Daily Cold Thermal Processing Landfill/Structure	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071	g (DOT reg. # - 3171030
Contact person, address and telephone number, inclu D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Woburn Municipal Landfill Contact Person: Street: 202 Merrimac Street City/Town: Woburn Telephone: 978 375 4611 Ext.: Type of Facility: Asphalt Batch/Cold Mix Landfill/Disposation (check one) Asphalt Batch/Hot Mix Landfill/Daily Coll Thermal Processing Landfill/Structure	g (DOT reg. # - 3171030

	lassat:husatts Department of Environmental Prol Tureau of Waste Site Cleanup	ection BWSC-012A
DEP	ILL OF LADING (pursuant to \$10 CMR 40,0030)	Reledae Tracking Number
E RECEIVING FACILI Temperary Storage Addre	TY/TEM/ ORARY STORAGE LOCATION (continued):	
Street:		
City/Town:	State:	ZIP Code:
(chack all that apply)		
	is (check all that apply); ((R) Soil () Groundwater () Surface its (check all that apply); (C) Vegetation or Organic Debris ((R) Indigenic Absorbent Meterials () Other:	
Non-hazardous Un	container red Waste (check all (hat apply): Non-aquaous Phase Liquid) Other:
	n sinerize: Weste (check all that apply); O Tenk Bottoms/Sludges O Cl Engineered Impoundments O Other:	
Typs of Contemination (:	thick all flat apply): Gazoline Diesal Fuel #2 Oil	
Contaminant Source (che	erials. (Subic Yards: 750 Tone: 1125 ck one/equally). Transportation Assistant Underground Stars and with Euli or Lading (chack one): Lammediate Response Action	Tank Other F7
Remodiation Waste Cha	rearization Support Documentation attached:	
	ting documentation is not appended, provide an attachment stating thedate a	in connection with what
G. LICENSED SITE OF	document much information was previously submitted to DEP	
d. Cociocosiich	ROFESSIONAL (LSP) OPINION:	
	ATC: Associates Inc	B
LSP Name: DEAN		Engineer
Telephone: . 787 -	432-1400 Ext. 306	
accompanying this subm	ittel. In no professional opinion and judgment beese upon application of	withmilial formitting any and all northments
(i) the standard of care in (ii) the soblicable provisi (iii) the provisions of 309	oris of 3011 CMR 4.02(2) and (3), and	
facility is permitted to an	dge. Information and belief, the assessment actions uncartaken to characterize for accomplishing at the family identified in air submittal comply with the application of the family identified in air submittal comply with the application. Remarkable in this submittal it is possible fines and impresonment, if I submit information which I know the property of the possible fines and impresonment.	t provisions of 310 CMR 40,0000, and such
LSP Signature: 12-	10. possible fines and Imprisonment, if I submit Information which I know of the control of the	USTRA 10.7051

License Number

705



Massauhusetts Department of Environmental Projection

H. CERTIFICATION OF PERION CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:

BWSC-012A

Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40,0030)

	Relea	986	Tracking Number
ALC		-	

documents accompanying	I have because the control of the control of the control of the best of the be	red on my inculty of those by knowledge and belief, inc	i yisicibenmi elsubivibni e, accurate and completi	sponsible for obtaini	ng the information, the	
Signature:	<1000		Date:	- who	102	
Name of Parson (print):	Jun H	ENEBURY		,	1	

RESPONSE AUTION LOT COVERED UNDER MILP DISPOSAL OF HISTORICE FILL APPOUR S-1. CONDITIONS ND WITHIN OF CANDFICE SOIL REUSE GUIDELINES FOR DAILY COVER MATERIAL MYSTERIAL GENERATED UIDER CRCLA CLEANUP FOR US. ARMS CORPS OF EIGHNEERS UNDER THE DEVENS LANDFILL RISMEDIATION PROJECT () SACE CONTRACT KID. DACW33-97-D-002, DELIVERY CIZDER NO. 10).

(SECRETATION INFO AS FOILCOUS:

US ARMY CORPS OF ENGINEERS SO MACARTHUR ROA'S Devens, MA 01432 (978) 772-0148

CONTACT: JOHN MCIDWELL CONSTRUCT ON REPRESENTATIVE

	sachusetts Department of E au of Waste Site Cleanup	nvironmental Protection	BWSC-012B
DEP SUMM	OF LADING (pursuant to 310 CM	(ARNEY#45) MA [ease Tracking Number
I. LOAD INFORMATION: Load 1: Date of Shipment: I スー みつ・ロス Truck/Tractor Registration:	Signature of Transporter Representative: John Slice Time of Shipment: 7:26 AM PM Trailer Registration (if any): 69:79 7	Receiving Facility/Temporary Storage Representated WOBUCO AND LL Paragraph Date of Receipt: Time of Receipt: 8:58 Load Size (az. yds./tons): 40.11	.y
Date of Shipment Truck/Tractor Registration:	Transporter Representative: Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Representation WOBURN AND FILL BY Date of Receipt: Time of Receipt: 12/20/17 Load Size (cu. yds./tons): 28.86	Ĵive:
Load 3: Signatiure of Date of Shipment Truck/Tractor Registration:	Transporter Representative: John Shin Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporally-Storage Represental WOB UR N Date of Receipt: Time of Receipt: 2.39 Load Size (aL yds./lons): 33.77	ove: □ am 🖒 pm
Load 4: Signatiure of Date of Shipment	Transporter Representative: Time of Shipment:	Receiving Facility/Temporary Storage Representati	ive:
Truck/Tractor Registration:	AM PM Trailer Registration (if any):	Date of Receipt: Time of Receipt: Load Size (zu. yds./tons):	AM PM
Load 5: Signature of 1	ransporter Representative:	Receiving Facility/Temporary Storage Representa	tive:
Date of Shipment:	Time of Shipment AM PM	Date of Receipt: Time of Receipt:	AM PM
Truck/Tractor Registration:	Trailer Registration (if any):	Load Size (cu. yds./tons):	
Load 6: Signatiure of T	ransporter Representative:	Receiving Facility/Temporary Storage Representa	tive:
Date of Shipment Truck/Tractor Registration:	Time of Shipment: AM PM Trailer Registration (if any):	Date of Receipt: Time of Receipt: Load Size (cu. yds./tons):	AM PM
J. LOG SHEET VOLUME	Total Carried Forw	orded This Page (cu. yds/tons) vard (cu. yds/tons): O vard and This Page (cu. yds/tons):	74)

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Massachusetts Department of En Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CM) SUMMARY SHEET 2 9 OR	#41
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOB V.E.N AND FILL 12 Date of Receipt: Time of Receipt: 12/20/02 8:33 MAM PM Load Size (cu. yds./lons): 35.71
Date of Shipment Date of Ship	Receiving Facility/Temporary Storage Representative: WOBUCN AND FILE Date of Receipt: Time of Receipt: 17:03 PM Load Size (cu. yds./tons): 35.94
Date of Shipment Time of Shipment Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage-Representative/ WOBUCA AND FIL ² P2 Date of Receipt: Time of Receipt AM PM 12/20/02 1:21 AM PM Load Size (cu. yds./tons): 35.78
Load 4: Signature of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: NOB VOEN
Load 5: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./lons):
Load 6: Signature of Transporter Representative:	Reserving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
Total Carried Forw	orded This Page (cu. yds./tons) (0.7.6.3) vard (cu. yds./tons): (0.7.4) vard and This Page (cu. yds./tons): (21.0.37)

Massachusetts Department of En Bureau of Waste Site Cleanup	nvironmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 CMI DEP SUMMARY SHEET 3/9 OF	Release Tracking Number CARNEY NA -
I. LOAD INFORMATION: Signatiure of Transporter Representative: Load 1: True of Shipment: 7.05 12-20-07 Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOB URN AND FILE By Date of Receipt: Time of Receipt: 8:37 AM PM
Load 2: Signatiure of Transporter Representative: Anticold Investor Date of Shipment Time of Shipment: J - 20 - C2	Load Size (cu. yds./tons) 40.83 Receiving Facility/Temporary Storage Representative: WOB WCA AND FILE Py Date of Receipt: Time of Receipt: MAM PM 12 20 02 11:15 MAM PM Load Size (cu. yds./tons) 40.16
Load 3: Signature of Transporter Representative: Date of Shipment Time of Shipment AM PM	Receiving Facility/Temporary Storage Representative: WOBURN AND HILL By Date of Receipt: Time of Receipt: 1.47 AM PM Load Size (cu. yds./lons): 37.63
Load 4: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
	Load Size (cu. yds./tons):
Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	I I Load Size (cu. yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Total Carried Forw	oxided This Page (cu. yds./tons): ard (cu. yds./tons): ard and This Page (cu. yds./tons): 328.99

Massachusetts Department of Er Bureau of Waste Site Cleanup	nvironmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 CM)	Release Tracking Number ARNEY #51 M/A -
LOAD INFORMATION: Signation of Transporter Representative: Load 1: Policie Control Date of Shipment: 12-20-03 Time of Shipment: 7/15 DAM DPM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage/Representative: WOBURA AND 14 B Date of Receipt: Time of Receipt: 9:09 DAM PM Load Size (cu. yds./tons): 3406
Load 2: Signature of Transporter Representative: Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOBLUC
Load 3: Signature of Transports Representative: Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (if any): 360757 74054	Receiving Facility/Temporary Storage Representative: WOBURN AND Five By Date of Receipt: Time of Receipt: AM D PM Load Size (cu. yds./fons):
Load 4: Agnature of Transporter Representative: Date of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any);	Receiving Facility/Temporary Storage/Representative: WOBULE AND FILE BI Date of Receipt: Time of Receipt: AM PM PM Load Size (cu. yds.,tons):
Load 5: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu, yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any): LOG SHEET VOLUME INFORMATION: Total Volume Reco	Load Size (cu. yds /tons): 67.82

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	achusetts Department of E u of Waste Site Cleanup	nvironmental Protection	BWSC-012B
BILL O	OF LADING (pursuant to 310 CM	R40,8030) #39 Releas	e Tracking Number
I. LOAD INFORMATION: Load 1: Date of Shipment 12-25-52 Truck/Tractor Registration: 33909 Load 2: Signature of Tr	Signature of Transporter Representative: Time of Shipment: AM PM Trailer Registration (if any): 69796 ransporter Representative:	Date of Receipt:	ØAM □ PM
Date of Shipment: 12-20 - 0 2 Truck/Tractor Registration: 32907	Time of Shipment: 7. 05 PAM PM Trailer Registration (if any): 69796	Date of Persint: Time of Persint:	MAM PN
Load 3: Signature of Tr	Time of Shipment: 7:05 AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative Log LK A AND File B Date of Receipt: Time of Receipt: 1:49 Load Size (cu. yds./tons): 33.65	AM PM
Load 4: Signatiure of Tra Date of Shipment Truck/Tractor Registration:	Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: Load Size (cu. yds./tons):	☐ AM ☐ PM
Date of Shipment:	Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative Time of Receipt: Load Size (cu. yds./tons):	: □ AM □ PM
Date of Shipment	Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative Date of Receipt: Time of Receipt: Load Size (cu. yds./tons):	: AM PM
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Total Carried Forward and This Page (cu. yds./tons):

Massachusetts Department of E Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CM	
DEP SUMMARY SHEET 69 OF	R40.0030) CARNEY #42 WA - WA
I. LOAD INFORMATION Signature of Transporter Representative: Load 1: Date of Shipment Time of Shipment: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOBURN AND FLL Ry Date of Receipt: Time of Receipt: 12/20/07 8-34 MAM PM Load Size (cu. yds./toris): 33.52
Load 2: Signature of Transporter Representative: Date of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporery Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds.Aons): 37.61
Load 3: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOBLIEN AND FILE Date of Receipt: Time of Receipt: 1.23 AM PM Load Size (cu. yds./lons) 33.56
Load 4: Signature of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOBUCN LAND FIL 12 Date of Receipt: Time of Receipt! AM MPM Load Size (cu. yds./tons):
Load 5: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any);	i Load Size (cu. yds./tons):
Load 6: Signatiure of Transporter Representative:	: Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
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Total Carried Form	orded This Page (cu. yds./tons) (ard (cu. yds./tons): (ard and This Page (cu. yds./tons): (5 1 3 5 4)

Truck/Tractor Registration: Trailer Registration (if any): 3965 3492 Load Size (cu. yds./tons): 34.95 Receiving Facility/Temporary Storage Representative: WOBULO AND HUM Date of Shipment: Time of Shipment: Truck/Tractor Registration: Trailer Registration (if any): Truck/Tractor Registration: Trailer Registration (if any):				
BILL OF LADING (pursuant to 310 CMR 40.0030) Release Tracking Number SUMMARY SHEET 7 9 0F (ARNEY 45.32) I. LOAD INFORMATION: Signalture of Transporter Representative: Date of Shipment: Wa -	60	경기 이 아이는 이 없는 사이를 가지 않는 것이 없는 것이 없다면 없는 것이다.	hvironmental Protection	BWSC-012B
Load 1: Date of Shipment Company Date of Shipment Time of Shipment: Date of Receipt: Date of Rece		BILL OF LADING (pursuant to 310 CM)	(ARNEY \$452) N/A -	e Tracking Number
Date of Shipment Time of Shipment: AM DAW AND FIVE Time of Receipt: Truck/Tractor Registration: Trailer Registration (if any): Date of Shipment: Date of Receipt: Load Size (cu. yds./tons): 34.95 Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: WBULD AND FIVE Date of Receipt: Time of Receipt: Time of Receipt: Date of Receipt: Time of Receipt: Time of Receipt: Date of Receipt: Time of Receipt: Time of Receipt: Date of Receipt: Time of Receipt: Date of Receipt: Date of Receipt: Time of Receipt: Date of R	Load 1: Date of Shipment レイングのン Truck/Tractor Registral	Time of Shipment: AM PM tion: Trailer Registration (if any):	Date of Receipt: Time of Receipt: 9:17	□ AM □ PM
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LEGAL SIZE (Cd. yds./id/is). (34.76)	Date of Shipment	Time of Shipment:	Date of Receipt: Time of Receipt:	
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J. LOG SHEET VOLUME INFORMATION:

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3.	
Massachusetts Department of En Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CMR SUMMARY SHEET 8 9 OF	
LOAD INFORMATION: Signatiure of Transporter Representative: oad 1: Acclared ate of Shipment Time of Shipment: 7,'10	Receiving Facility/Temporary Storage Representative: WCBURN PNDFILL R Date of Receipt: Time of Receipt: 12/20/02 9.15 P AM PM Load Size (cu. yds./tons): 36.65
oad 2: Signatiure of Transporter Representative: All Shipment: Time of Shipment: AM PM uck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOBLICK
ate of Shipment: AM PM Uck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: WOBURN AND FILE P Date of Receipt: Time of Receipt: AM IM PM Load Size (cu. yds./lons): 36.05
Dad 4: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:

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ransporter Representative:	1			
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ansporter Representative:	Receiving Facility/Temporary	/ Storage Representative	9:	
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I. LOAD INFORMATION Load 1: Date of Shipment 2-20-02 Truck/Tractor Registration	Time of Shipment: 2 AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative ANDHLL By Date of Receipt: Time of Receipt: 9:27 Load Size (cu. yds./tons): 36.78	⊠ ам □ РМ
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET OF			BWSC-012C Release Tracking Number	
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APPENDIX 8-B

Off-Site Waste Disposal Profiles, Manifests and Bills of Lading – AOC 11

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APPENDIX 8-C

Off-Site Waste Disposal Profiles, Manifests and Bills of Lading – AOC 40



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NEBS To Reorder. 800-225-6380 or nebs.com

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NEBS To Reorder: 800-225-6380 or nebs.com

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Bills of Lading - Woburn



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BWSC-012A

BILL OF LADING (SUBMERCES 200 CERR 49,0029)

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ID. TRANSPORTER OR COMMON CARRIER INFORMAT	
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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	Release Tracking Number
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DEP BIL	L OF LADING (p	oursuant to 310 CMR 40	(,0030)] ALU;	
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	CHBURG	32/31/3		ZIP Code: _	and the same of th
F. DESCRIPTION OF REN (check all that apply)	EDIATION WASTE				
		Soil Grou Soul Grou Soul Vegetation or Orga bant Materials GOTH	arvit Debris ()	Water O Other_ Demolition/Construction	
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Non-hazardous Contak	narized Waste (check all		Boyoma/Slugges ()	Containers O	Drums
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Response Action Associated					
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Remediation Waste Chercles Site History Information	n Sampling and	entation anaches Analytical Methods and Pr ppended, provide an attach			
	document	such information was previous			(11)21
G. LICENSED SITE PROF	the state of the s	Printers.			
LSP Name: Dennis Tolephone: 781 - 9	P. Giustin	Tille	Senior Pro	yest Engine	<u> </u>
) altest under the pains and p accompanying this submittal	renailles of perjury that In my professional opi	i have personally examired inion and judgment based i	and am lamiliar with t	his submittal, includin	g any and all documents.
(i) the standard of care in 306 (ii) the applicable provisions (iii) the provisions of 309 CM	of 309 CMR 4.02(2) and	1 (3), and			
to the best of my knowledge, subject of this submitted for a facility is permitted to accept including, but not limited to.	Remediation Waste have	identified in this submittel t	romply with the application of the submitted in the submi	Learne Mary vioni	CMR 40,0000, and such ficant penalties may retult
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012A

Release Tracking Number

BILL OF LADING (pursuant to 310 CMR 40,8030)

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H. CERTIFICATION OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:

I certify under penalties of law that I have personally examined and arm familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and betief, true, accurate and complete. I arm aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Signature:	SIMIKI		Date:	12/10/02
Name of Person (print):	Jim	HOUGERRY	1	

RESPONSE ACTION NOT CONSIDERED COVERZED UNDER MCP. DISPOSAL OF HISTORIC FILL ABOVE S-1 CONDITIONS AND WITHIN UNLINED-LANDFILL SOIL REUSE GUIDEZINES FOR DAILY COVER MATERIAL

MATERIAL CENESATES UNDER CRCLA CLEANUP FOR U.S. ARMY CORPS OF ENCINEERS UNDER THE DENEWS LANDFILL REMEDIATION PROJECT (CONTRACT NO. DACK 33-97-D.COL, DELIGRY ORDER NO. 10)

COUGRATOR INFURNATION AS FOLLOWS:

US ARMY CORPS OF ENGINEERS SO MACARTHUR ROAD DEVENS, MA C1432 (978)772-0148

CONTRET: JOHN MCDOWERL
CONSTRUCTION REPRESONTATIVE

(Carney 50%)

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BWSC-012B



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40 0030)

	Release	Tracking Number
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I. LOAD INFORM Load 1:	Buln	f Transporter Repres	entative:	Receiving Facility/Temporary			
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	natiure of Transporter Re			Receiving Facility/Tempora	ry Storage Representative:	I,	
Date of Shipment		MA [□ РМ	Date of Receipt:	Time of Receipt: /2.4/	PAM	Г РМ
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Date of Shipment 12/27/02 Truck Tractor Regis			☐ PM	Receiving Facility/Temporar (1/1/6/17/19) Date of Receipt:	ry Storage Representative:	☐ AM	₽ PM
39657	3449	2		Load Size (cu. yds./tons):	(32.75)	
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number MADE

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12-37-02 11:49 DAM DPM	Date of Receipt: Time of Receipt:
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ADING (pursuant to 310 CMR 40.0030)

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Massachusetts Department of E Bureau of Waste Site Cleanup	nvironimental Protection	BWSC-012B
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Revised 10/3/94

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Massachusetts Department of Environmental Protection BWSC-012B Bureau of Waste Site Cleanup Release Tracking Number BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET Signatiure of Transporter Representative: I. LOADINFORMATION: Receiving Facility/Temporary Storage Representative: Load 1: WOBURN LAND = SK Time of Shipment: Date of Receipt: Time of Receipt: Trailer Registration (if any): Load Size (cu. yds./tons): re of Transporter Representative: Receiving Facility/Temporary Storage Representative: WOBURN LAN Time of Shipment: Date of Receipt: Time of Receipt: AM PM AM PM 12/27 Trailer Registration (if any): Load Size (cu. yds./tons): atiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Time of Shipment: PM AM WPM Trailer Registration (if any): Load Size (cu. yds./tons): Signature of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Time of Receipt: Date of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 5: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: Time of Receipt: AM PM AM TruckTractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 6: Signature of Transporter Representative: Receiving Facility/Temporary Storage Representative:

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Page 1 of 1

Massachusetts Department
Bureau of Waste Site Cleanu

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

Bureau of Waste S	ite Clear	пир		
BILL OF LADING (pt	rsuant to	310 CM	R 40.0030)	
SHMMADY SHEET	7	OF	8	

Release Tracking Number

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I. LOAD INFORMATION: Load 1: Lecutory Date of Shipment	Signation of Transporter Representative:	WOBURN	ry Storage Representative: LANDFILL SK		
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Page 1 of 1

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BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

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29650	MA			Load Size (cu. yds./tons):	(31.36)		
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Bills of Lading - Brockton





Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012A

1	10	Release Trackli	ig Numbe
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RATE	D:		

DEP BILL OF LADING (pursuant to 310 CMR	
A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATE	ON WASTE WAS GENERATED:
Release Name (optional): Area of Concern 40 (AOC-40)	
Sireet: Patton Road	Location Aid: Cold Spring Road
City/Town: Ayer	ZIP Code: 01432
Date/Period of Generation: 9/3/02 to: 1/17	ا URIGINAL
Additional Release Tracking Numbers Associated with this Bill of Lading: * Note: If this Bill of Lading is the result of a Limited Removal Action (LRA)	laken prior to Notification, a Release Tracking Number is not needed.
B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED W Name of Organization: Stone & Webster Construction, I	
Name of Contact: Jim Henebury	Title:
Street: 45 Patton Road	
NEXT AND THE PROPERTY OF THE P	State: MA ZIP Code: 01432
Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s Other Person: Contractor for Generator US Army	
Other Person: Contractor for Generator- US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, include D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name,
Olher Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, include D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known. (DOT reg. # - 3171030) Title: Industrial Coordinator
Other Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, included. D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known. (DOT reg. # - 3171030) Title: Industrial Coordinator State: MA ZIP Code: U2767
Other Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, included. D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS - That cher Street Landfill	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known. (DOT reg. # - 3171030) Title: Industrial Coordinator State: MA ZIP Code: U2767
Other Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, included. D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS - That cher Street Landfill Contact Person: Janice Farren That cher Street	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known (DOT reg. # - 3171030) Title: Industrial Coordinator State: MA ZIP Code: U2767
Other Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, included. D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS - Thatcher Street Landfill Contact Person: Janice Farren Street: Thatcher Street	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known (DOT reg. # - 3171030) Title: Industrial Coordinator State: MA ZIP Code: 02767
Other Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, included the contact person address and telephone number, included the contact person address and telephone number, included the contact Person: Carney Bros. Trucking Carney Bros. Truckin	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known. [(DOT reg. # - 3171030) Title: Industrial Coordinator State: MA ZIP Code: U2767 Title: Industrial Coordinator
Other Person: Contractor for Generator- US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, include D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071 Ext.: 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- Thatcher Street Landfill Contact Person: Janice Farren Street: Thatcher Street City/Town: Brockton	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known [(DOT reg. # - 3171030)
Other Person: Contractor for Generator - US Army If an owner and/or operator is not conducting the response action as contact person, address and telephone number, included. D. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Bros. Trucking Contact Person: Janice Farren Street: 1958 Broadway City/Town: Raynham Telephone: (508) 824-4071	Corps of Engineers sociated with the Bill of Lading, provide on an attachment the name, ding any area code and extension, for each, if known. [(DOT reg. # - 3171030)

Massachusetts Department of Environmental Protection

BWSC-012A

Bureau of Waste Site Cleanup

Release Tracking Number* BILL OF LADING (pursuant to 310 CMR 40,0030) ALC E RECEIVING FACILITY/TEMPORARY STORAGE LOCATION (continued): WALTER FLORE Temporary Storage Address: 15-35 COBBLER DRIVE - AKS REZYCLING, INC. Street State: MA ZIP Code: 01420 FITCHBURG City/Town: F. DESCRIPTION OF REMEDIATION WASTE (check all that apply) Contaminated Media (check all that apply): Soil O Groundwater O Surface Water O Other:__ Contaminated Debris (check all that apply): 🔎 Vegetation or Organic Debris 🔘 Demolition/Construction Waste O Inorganic Absorbant Materials O Other: Non-hazardous Uncontainerized Waste (cneck all that apply); O Non-aqueous Phase Liquid O Other Non-hazardous Containerized Waste (theck all (hat apply): O Tank Bottome/Sludges O Containers O Drums Engineered Impoundments O Other. ___ Type of Contamination (check all that apply): Sasoline Diesel Fuel #2 Oil #4 Oil #6 Oil Waste Oil Jet Fuel Other: As Ph PAHS, RESTICIDES Estimated Volume of Materials: Cubic Yards: 4500 Tons: 6,000 Other: Contaminant Source (check one/specify); Transportation Accident Underground Storage Tank Diher: Response Action Associated with Bill of Lading (check one): Immediate Response Action Release Abatement Measure Utility-Related Abatement Measure Limited Removal Action Comprehensive Response Action Other ___ Remediation Waste Charcterization Support Documentation attached: Site History Information Sampling and Analytical Methods and Procedures . Laboratory Data Field Screening Data If supporting documentation is not appended, provide an attachment staling thedate and in connection with what document such information was previously submitted to DEP. G. LICENSED SITE PROFESSIONAL (LSP) OPINION: Totephone: I attest under the pains and penalties of perjury that I have personally examined and amiliar with this submittal, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1). (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (III) the provisions of 309 CMR 4.03(5). to the best of my knowledge, information and belief, the assessment actions undertaken to characterize the Remediation Waste which is (are) ine subject of this submitted for acceptance at the facility identified in this submitted comply with the applicable that has of 310 CMR 40,0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submit in permitted to scent Remediation Waste having the characteristics described in this submit in property in the permitted to possible fines and imprisonment, if I submit information which I knowledge to the property incomplete. LSP Signature: 12-18-02 License Number:



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012A

BILL OF LADING (pursuant to 310 CMR 40,0030)

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H.	CERTIFICATION OF P	ERSON CONDUCTING	DESPONSE ACTION	ASSOCIATED WIT	H THIS BILL O	FI ADING.
1.40	OF LINE OF LANDING OF L	ELMON COUNTRE LING	KESPUNSE ACTION	MODULUM IED MIN	n inis bill o	r Lauring.

I certify under pensities of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, besed on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Signature:	Amil		Date:	12/10/02
Name of Person (print):	Jim	HENERURY		

RESPONSE ACTION NOT CONSIDERED CONGRED UNDER MCP. DISPOSAL OF HISTORIC FILL ABOVE S-1 CONDITIONS AND WITHIN UNLINED-LANDFILL SOIL REUSE GUIDELINES FOR PAICY COVER MATERIAL

MATERIAL CEPIBRATES UNDER CRICIA CLEANUP FOR U.S. ARMY CORPS OF ENCHNEERS UNDER THE DEVENS LANDFILL REMEDIATION PROJECT (CONTRACT NO. DACW 33-97-D.OOD, DELIVERY ORDER NO. 10)

CONGRATOR INFORMATION AS FOLLOWS:

US ARMY CORPS OF ENGINEERS SO MACARTHUR ROAD DEVENS, MA CI432 (978)772-0148

CONTACT: JOHN MCDOWELL
CONSTRUCTION REPRESENTATIVE

Massachusetts Department of E Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CM SUMMARY SHEET	
I. LOAD INFORMATION: Signatiure of Transporter Representative: Load 1: Date of Shipment: 1-7-03 Truck/Tractor Registration: Trailer Registration (if any): 50569 1-7-98	BROCKPW LAMPIC PM
Load 2: Signature of Pransporter Representative: Date of Shipment Time of Shipment: 1-7-03 12:30 AM PM Truck/Tractor Registration: Trailer Registration (If any): 50569 69798	Receiving Facility/Temporary Storage Representative: BROCKTOLLMOTEL Property Date of Receipt: Time of Receipt: AM Property Coad Size (cu. yds Aons): 30.65
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./lons):
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J. LOG SHEET VOLUME INFORMATION:

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Time of Receipt;

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Date of Shipment

Truck/Tractor Registration:

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Massachusetts Department of E Bureau of Waste Site Cleanup	nvironmental Protection T.K. 开より
BILL OF LADING (pursuant to 310 CM	R 40.0030) Release Tracking Number
DEP SUMMARY SHEET OF_	2 D. NA
I. LOAD INFORMATION: Signatiure of Transporter Representative: Load 1: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment;	Receiving/Facility/Temporary Storage Representative: BRUCKTON CHARDER M.
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Revised 10/3/94

Massachusetts Department of Environmental Protection BWSC-012B Bureau of Waste Site Cleanup Release Tracking Number BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative Jun 8,03 Time of Receipt: Truck/Tractor Registration: 55228 Load Size (cu. yds./tons): Signatiure of Transporter Representative: Time of Shipment: Jan8 03 Truck/Tractor Registration: Trailer Registration (if any): Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: ПАМ ПРМ Time of Receipt: AM PM Trailer Registration (if any): Truck/Tractor Registration: Load Size (cu. yds./tons): Signatiure of Transporter Representative: Load 4: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Time of Receipt: Date of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 5: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: Time of Receipt: MAM MPM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 6: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: Time of Receipt: AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons):

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J. LOG SHEET VOLUME INFORMATION:

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BILL OF LADING (pursuant to 310 CMR 40,0030) Release Tracking Number SUMMARY SHEET OF I. LOAD INFORMATION:- Signating of Trassporter Representative: Load 1:	Massachusetts Department of E Bureau of Waste Site Cleanup	Environmental Protection BWSC-012B
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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Massachusetts Department of El Bureau of Waste Site Cleanup	nvironmental Protection BWSC-012B
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I. LOAD INFORMATION: Signative of Transporter Representative: Load 1: Incu Substitute of Transporter Representative: Date of Shipment Time of Shipment: 1-9-02 6:35 DAM DPM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: BROCKTON MASPUM Date of Receipt: Time of Receipt: 1/9/03
98932 69755 MA	Load Size (cu. yds./lons): 32.00
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Massachusetts Department of E Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CM) SUMMARY SHEET OF	R 40.0030) Release Tracking Number
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50569 69798	Load Size (cu. yds./lons): 30.49
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Massachusetts Department of E Bureau of Waste Site Cleanup		BWSC-012B
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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25016 3383	3	Load Size (cu. yds./tons):	34.30	
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40063 mg 20715 MA	Load Size (cu. yds./tons): 3/89
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Massachusetts Department of Environmental Protection

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Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310	CMR 40.0030) / Release Tracking Number
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Massachusetts Department of B Bureau of Waste Site Cleanup	Environmental Protection BWSC-012B
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Massachusetts Department of Environmental Protection

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BILL OF LADING (pursuant to 310 C	:MR 40.0030)	Rele	ease Tracking Number
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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20250 69915 MA	Load Size (cu, yos. lons): \$5-07
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Massachusetts Department of El Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CM) SUMMARY SHEET OF	Corney #54
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Signature of Transporter Representative: Load 1: Signature of Transporter Representative: Time of Shipment: 1-13-03 6:30 AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Stodage Representative: BruckTON WANDFIEL BUNA. Date of Receipt: 1/3/63 9:02 DATE DATE DATE DATE DATE
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I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment:	Receiving Facility/Temporary, Storage Representative: Bus
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-2798 69193	Load Size (cv. yds.)
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Date of Shipment: Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM PM
Hope Heart Heart and Heart Hea	Load Size (cu. yds./lons):
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The state of the s	Load Size (cu. yds./ions):
Load 5: Signature of Transporter Représentative:	ReceMng Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt: Time of Receipt: AM PM
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Load 6: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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ruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yda./tona):
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BILL OF LADING (pursuant to 310 CM)	R 40.0030)	Release	Tracking Number
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I. LOAD INFORMATION: Signature of Transporter Regresentative: Load 1: One Michael Time of Shipment:	Receiving Facility/Temporar	y Storage Representative:	BUA
1-13-03	Date of Receipt: 11/3/03	Time of Receipt	PAM PK
50569 69798	Load Size (cu, yda tons)	24.23	
Load 2: Signature of Transporter Representative: Dale of Shipment Time of Shipment	BROCKTH	ry Storage Representative:	M
1-13-03 1/: 20 Ø AM □ PM Truck/Tractor Registration: Trailer Registration (If any):	Daleyof Receipt:	221/	AM OFN
50569 69798	I Load Size (cu. yde /ons):	28.14	
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporer	y Slorage Representative:	
Date of Shipment Time of Shipment AM PM	Date of Receipt	Time of Receipt:	AM PM
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Tighter Troggog down (it stry).	Load Size (cu. yds.Aons);		
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Date of Shipment:	Date of Receipt:	Time of Receipt:	AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu, yds,/lons):		
Load 6: Signature of Transporter Representative:	Receiving Facility/Temporar	y Storage Representative:	
Date of Shipment Time of Shipment AM PM	Dale of Receipt:	Time of Receipt:	AM FM
ruck/Tractor Registration (if any):	Load Size (cu, ydy./tony);		
LOG SHEET VOLUME INFORMATION: Total Volume Reco	orded This Page (cu, yds flons)	52-37	

Revised 10/3/24

Massachusetts Department of Bureau of Waste Site Cleanup	of Environmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 DEP SUMMARY SHEET	CMR 40.0030) Release Tracking Number OF
1. LOAD INFORMATION: Signature of Transporter Represental Load 1: Date of Shipment Time of Shipment: 7. 60	Date of Receipt:
Truck/Trador Registration: Trailer Registration (if any):	Load Size (cu. yds. 603): 25.76
Load 2: Signature of Transporter Representative: Date of Shipment: Time of Shipment: 1-13-03 Truck/Tractor Registration: Trailer Registration (if any):	1/13/00 1:55
332-0_3 Load 3: Signature of Transporter Representative:	Load Size (cu. yds./lons): 29. 49
Date of Shipment: Time of Shipment: AM Properties Am Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./Ions):
Load 4: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
	Load Size (cu. yds./tons):
Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any);	Load Size (cu. yds./tons):
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BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

DEP SUMMARY SHEET 8 0	F_10_ NA
I. LOAD INFORMATION: Signature of Transporter Representational 1:	Receiving Facility/Temporary/Storage Representative: Bud.
Date of Shipment 1/13/03 Truck/Tractor Registration: Time of Shipment: 9.33 AM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: 97.32
57330 34498	Load Size (cu. yds flons) 75. 43
Load 2: Signatiure of Transporter Representative: Date of Shipment	Receiving Facility/Temporary Storage Representative: BrockTow ASNOKIKE SUA
Truck/Tractor Registration: Trailer Registration (if any):	Dale of Receipt: Time of Receipt: 1/3/03
57330 34498	Load Size (cu. yds./1405): 26,7/
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PN
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons);
Load 4: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment:	Dale of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	I I Load Size (cu. yds./lons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Release Tracking Number

DEP SUMMARY SHEETC	DF_/D
I. LOAD INFORMATION: Signature of Transporter Representation Load 1: Date of Shipment 1 - 13 - 63 Time of Shipment:	Brock for haroseke Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any):	PM 1/13/03 9:45 PM PM
33426 78	Load Size (cu. yds 160s): 26. 25
Load 2: Signatiure of Transporter Representative: 1 - 13 - 03 Date of Shipment: Time of Shipment:	Receiving Facility/Temporary Storage Representative:
Truck/Tractor Registration: Trailer Registration (if any):	PM : 1/13/03 12:58 AM FN
33426 78	Load Size (cu. yds (cns) 27, /2
Load 3: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM P	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./lons);
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.oad 5: Signatiure of Transpc	ceiving Facility/Temporary Storage Representative:
vale of Shipment: Time of Shipment:	Date of Receipt: Time of Receipt: AM PM
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	Bureau of Waste Site Cleanup
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	BILL OF LADING (pursuant to 310 CMR 40.0030)
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ter Representative:	Receiving Facility/Tempora	ny Slorage Representati	BUA
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	Receiving Facility/Temporar	y Storage Representativ	e:
AM PN	Date of Receipt:	Time of Receipt:	AM PM
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r Representative:	Receiving Facility/Temporary	Storage Representative	
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Registration (if any):	t Load Size (cu. yds./lons):		
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Massachusetts Department of Bureau of Waste Site Cleanup	Environmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 C	
DEP SUMMARY SHEET OF	
I. LOAD INFORMATION: Signature of Transporter Representative Load 1: Date of Shipment Time of Shipment: 142002	Receiving Facility/Temporary Storage Representative: Brock(Ton Landkith Bus) Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Traffler Registration (if any):	Load Size (cu. yds./lons): 23. 80
Load 3: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./lons):
_oad 4; Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
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Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Massachusetts Department of E Bureau of Waste Site Cleanup BILL OF LADING (pursuant to \$10 CM) SUMMARY SHEET 2 OF	J. Marian (1997) P. Berger, M. Caralle, S.
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Prince Shipment: Date of Shipment: Time of Shipment: 1-14-03 6:25 Plan PM Truck/Tractor Registration: Trailer Registration (if any): 48732 69755	Receiving Facility/Temporary Storage Representative: BusA. Bus chrow hono File Date of Receipt: Time of Receipt: 1-14-03 8:55 DAM PM Load Size (cu. yds.flons): 24.06
Load 2: Signature of Transporter Representative: Date of Shipment: 1-1-1-03 Truck/Tractor Registration: Trailer Registration (If any): 48 532 65755 The late of Shipment: 18 5755 Trailer Registration (If any):	Date of Receipt: Coad Size (cu. yds./ions):
Load 3: Signature of Transporter Representative: Date of Shipment Time of Shipment AM PM Truck/Tractor Registration; Trailer Registration (If any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./lons);
Load 4: Signations of Transporter Representative: Date of Shipment Time of Shipment. AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt; Time of Receipt; AM PM
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Trailer Registration (if any):

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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	BILL OF LADING (pursuant to 310 CMR	40.003
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Release Tracking Number

I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: St. Marchael Time of Shipment: Time of Shipment: I-14-03 6:45 AM PM Truck/Tractor Registration: Trailer Registration (If any): 50569 69798	Receiving Facility/Temporary Storage Representative: Brock Ton hard File Blues Date of Receipt: Time of Receipt: FAM PN Load Size (cu. yds (ang): 23.87
Load 2: Signature of Transporter Representative: Date of Shipment Time of Shipment: 1-14-03 11:50 MAM PM Truck/Tractor Registration: Trailer Registration (If any): 50569 69798	Recalling Facility/Temporary Storage Representative: Recalling Facility/Temporary Storage Representative: Recalling Facility/Temporary Storage Representative: Recalling Facility/Temporary Storage Representative: Date of Receipt:
Load 3: Signature of Transporter Representative: Date of Shipmant Time of Shipmant AM PM Fruck/Tractor Registration: Trailer Registration (If any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
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oad 5: Signature of Transporter Representative: Time of Shipmant: AM PM ruck/Tractor Registration: Trailer Registration (If any):	Recalving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PLA Load Size (cu., yds./tons):
oad 6: Signature of Transporter Representative: Time of Shipment	Receiving Facility/Tamporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds //ons):

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Massachusetts Department o Bureau of Waste Site Cleanup	f Environmental Pr	otection Herios	BWSC-012B
BILL OF LADING (pursuant to 310 SUMMARY SHEET O	CMR 40.0030)		Release Tracking Number
I. LOAD INFORMATION: Signature of Transporter Representation: Signature of Transporter Representation: Signature of Transporter Representation: Time of Shipment: 7:00 AM Truck/Tractor Registration: Trailer Registration (If any): 33233	PM Load Size (cu. yds.//ens	Time of Rece 9:32	ipt:
Load 2: Signature of Transporter Representative: Date of Shipment: 1 i 60	PM Load Size (cu. yds./lons	Time of Receip	DPILL M
Load 3: Signature of Transporter Representative: Date of Shipment: Time of Shipment: Truck/Tractor Registration: Oad 4: Signature of: Melds to	Receiving Facility/Tempor	rary Storage Represen Time of Receip	
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Massachusetts Department of Bureau of Waste Site Cleanup	f Environmental Protection Commental Protection
BILL OF LADING (pursuant to 310 C	CMR 40.0030) Release Tracking Number
DEP SUMMARY SHEET _ 5 O	F_//
I. LOAD INFORMATION: Signature of Transporter Representative Load 1: Date of Shipment Time of Shipment: 1/4/03	Beckton LANDRILL GSWA
40063 MA 2276 MA.	Load Size (cu. yds Aons): 27.20
Load 2: Signatiure of Transporter Representative: Date of Shipment Time of Shipment: AM Procedure of Transporter Registration (if any): Load 3: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons): 29.45 Receiving Facility/Temporary Storage Representative:
Load 4: Signatiure of Transporter Representative: Date of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
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ruck/Tractor Registration: Time of Shipment: AM PM Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
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oad 6: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
ate of Shipment Time of Shipment AM PM.	Date of Receipt: Time of Receipt: AM PM
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BILL OF LADING (pursuant to 310	1/4/
I. LOAD INFORMATION: Signature of Transporter Representation Load 1: Date of Shipment / 14-0 Time of Shipment: 629	Receiving Facility/Temporary Storage Representative: B.W. Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any): 20250 62915 m A	Load Size (cu. yds(100)s): 24.62
Load 2: Signature of Transporter Representative: Date of Shipment / / / / / / / / / AM [] F Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Source Storage Representative: Stora
20250 MA 62915 MA Load 3: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment:	Receiving Facility/Temporary Storage Representative: Date of Receipt:
AM Ph Truck/Tractor Registration: Trailer Registration (if any):	Time of Receipt: AM PM Load Size (cu. yds./lons):
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Dale of Shipment: Time of Shipment: AM PM	Dale of Receipt: Time of Receipt: AM PM
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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BILL OF LADING (pursuant to 310 CMR 40,0030)

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DEP SUMMARY SHEETOF_	
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Interest Institution Date of Shipmant Time of Shipmant: -/4-3 6:35	Receiving Facility/Temporary Storage Representative: Brechten hantin Band Date of Receipt: Time of Receipt: 1-14-03 8:38 FM PM
43000 69794	Load Size (cv. yds (00)): 27-60
Load 2: Signature of Transporter Representatives Anticio Victorio Date of Shipment Time of Shipment 144-03 11:13 AM PM Truck/Tractor Registration: Trailer Registration (If any): 43000 69794	Receiving Facility/Temporary Storage Representative: DCC/CPW CHWIPU Date of Receipt: 1.14.03 Load Size (au. yds. Aons): 32-9V
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt:
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Load 4: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Fruct/Tractor Registration (if any):	Load Siza (eu. yds./lons):
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BILL OF LADING (pursuant to 310 0 DEP SUMMARY SHEETO	CMR 40.0030) Release Tracking Number
I. LOAD INFORMATION: Signature of Transporter Representative Load 1: Date of Shipment Time of Shipment: 1-14-03 6:11 VAM F Truck/Tractor Registration: Trailer Registration (if any): 30781 MA 39858 M	Breckton LAWSFILL GUA Date of Receipt: Time of Receipt: 8:57 GAM [] P
Load 2: Signative of Transporter Representative: Michael Tructure Date of Shipment Time of Shipment: 1-14-03 //348 DAM DRI Truck/Tractor Registration: Trailer Registration (if any): 2078/MA 398587	per contract of
Load 3: Signature of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt:
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

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	BILL OF LADING (pursuant to 3° CUMMARY SHEET	0 CMR 40.0030)	Release Tracking Number
I. LOAD INFORMAT Load 1: Date of Shipment	Time of Shipment:	Receiving Facility/Temp	Time of Receipt:
Truck/Tractor Registratio	n: Trailer Registration (if any):	Load Size (cu. yds.)	
Load 2: Signation / - 14 - 0 3 Date of Shipment Truck/Tractor Registration	Time of Shipment	Receiving Facility/Temp	porary Storage Representative: TIMN CANDONIL Time of Receipt: AM PA
33426		Load Size (cu. yds./lons	3901
Load 3: Signatiure	e of Transporter Representative:	Receiving Facility/Tempo	orary Storage Representative:
Date of Shipment Truck/Tractor Registration;	Time of Shipment: AM Trailer Registration (if any):	PM Date of Receipt:	Time of Receipt:
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oad 5: Signatiure o	f Transporter Representative:	0	ary Storage Representative:
ate of Shipment	Time of Shipment:	Date of Receipt:	Time of Receipt:
uck/Tractor Registration:	Trailer Registration (if any):	I I Load Size (cu. yds./tons):	
oad 6: Signatiure of	Transporter Representative:	Receiving Facility/Temporal	ry Storage Representative;
te of Shipment ck/Tractor Regisvation:	Time of Shipment: AM PM Trailer Registration (if any):	Date of Receipt: Load Size (cu. yds./tons):	Time of Receipt: AM PM
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BILL OF LADING (pursuant to 310 C	CMR 40.0030) Rele	ase Tracking Number
I. LOAD INFORMATION: Signature of Transporter Representative Load 1: Of Shipment: 1/14/03 G-40 F-3 M F-18	Dale of Receipt: Time of Receipt:	
Truck/Trador Registration: Trailer Registration (if any): 57329 M4	M 1-14-63 9:01 Load Size (cu. yds. (on): 15-38	GAM PA
Load 2: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative	ve:
Dale of Shipment Time of Shipment AM PM	I I Dale of Receipt: Time of Receipt:	AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):	
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative	i.
Dale of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt:	AM PM
Truck/Tractor Registration: Trailer Registration (if any):	I Load Size (cu. yds./lons):	
Load 4: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative;	
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Massachusetts Department of Ei Bureau of Waste Site Cleanup	nvironmental Protection BWSC-012B
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I. LOAD INFORMATION: Load 1: Just 1 Dale of Shipmant 1-14-03 Truck/Tractor Registration: 56-469	Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative: BILL Fin L Mail Cc Date of Receipt: Time of Receipt: 36 Load Size (cu., yds.nons): 25 28	RI DIM
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup Release Tracking Number BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET Receiving Facility/Temporary Storage Representative: Signatiure of Transporter Representative: I. LOAD INFORMATION: Load 1: Time of Shipment: Date of Shipment Date of Receipt: 1-15-03 AM PM MAN Trailer Registration (if any): Truck/Tractor Registration: Load Size (cu. yds./lons): Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment: Time of Shipment: Time of Receipt: Date of Receipt: AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./lons): Signatiure of Transporter Re acility/Temporary Storage Representative: Load 3: Date of Shipment: Time of SI :eipt: Time of Receipt: AM PM Trailer Ru Truck/Tractor Registration: e (cu. yds./tons): Signature of Transporter Representative: Load 4: ng Facility/Temporary Slorage Representative: Time of Shipment: Date of Shipment Time of Receipt: Date of Receipt: AM PM AM PM Truck/Tractor Registration; Trailer Registration (if any): Load Size (cu. yds./lons): Load 5: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment: Time of Shipment: Date of Receipt: Time of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 6: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment Date of Receipt: Time of Receipt: AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): LOG SHEET VOLUME INFORMATION: Total Volume Recorded This Page (cu. yds/lons) Total Carried Forward (cu. yds /jons):

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Massachusetts Department of Bureau of Waste Site Cleanup	Environmental Protection BWSC-012B
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Massachusetts Department of Environmental Protection BWSC-012B Bureau of Waste Site Cleanup Release Tracking Number BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET Signatiure of Transporter'Representative: LOAD INFORMATION: Receiving Facility/Temporary Storage Representative: Load 1: BRUKKANLANDELL Time of Shipment Dale of Shipment 1.16.363 Truck/Tractor Registration: Trailer Registration (if any) 24330 Load Size (cu. yds./tons): Signatiure of Transporter Representa Load 2: Receiving Facility/Temporary Storage Representative: Date of Shipment AM PM Trailer Registration (if any): Load Size (cu, yds./tons) Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment: Time of Shipment: Date of Receipt: ПАМ ПРМ Time of Receipt: AM PM Trailer Registration (if any): Truck/Tractor Registration: Load Size (cu. yds./tons): Signatiure of Transporter Representative: Load 4: Receiving Facility/Temporary Storage Representative: Time of Shipment: Date of Shipment Time of Receipt: Date of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 5: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment: Time of Shipment: Date of Receipt: Time of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 6: Signature of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: Time of Receipt: MAM MPM .AM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): LOG SHEET VOLUME INFORMATION: Total Volume Recorded This Page (cu. ydg /tons) Total Carried Forward (cu. yds /Jons)

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36077 74054	Load Size (cv. yds./tons): 30.6/
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Massachusetts Department of Environmental Protection

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Massachusetts Department of Environmental Protection

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	Bureau of Waste Site Cleanup	
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Page 1 of 1

Massachusetts Department of Element of Waste Site Cleanup	nvironmental Protection BWSC-012B
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Date of Shipment: 1-16-03 Time of Shipment: 12.00 AM 22 EM Truck/Tractor Registration: Trailer Registration (If any): 20150 62915 WA	Receiving Facility/Tamporary Storage Representative: BROCKTIN LIMPIN Date of Receipt: Time of Receipt: AM - PM Load Size (cu. yds./tons): 26 8 6
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Massachusetts Department of Environmental Protection

BWSC-012B

Bureau of Waste Site Cleanup	
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Massachusetts Department of Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 c) SUMMARY SHEET	SIZER
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48932 69755MA	Load Size (cv. yds./lons): 3.5.97
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360757 +4054	Load Size (cu. yds./lons): 32,139
Load 2: Signature of Transpoller Representative: Date of Shipment Time of Shipment: -/7-03	Receiving Facility/Temporery Blorage Representative: Date of Receipt: Time of Receipt: PM PM Lozd Size (cu. yds Agns): 3/./3
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM PM
	Load Size (cu. yds./lons);
Load 4: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM. PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM FM
Load 5: Signature of Fransporter Representative:	ReceMng Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:
Truck/Tractor Registration: Trailer Registration (If any):	Load Siza (cu, yds.Aons)
Load 6; Signature of Transporter Representative:	Receiving Fedility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PAI Load Size (cu. ydr./lons);
, Total Carried Forw	ard end This Page (cu. yes Aore) (03-52 Of end (cu. yes Aigns): (08-63) ord and This Page (cu. yes Aore): (23-63)

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BWSC-012B

BILL OF LADING (pursuant to \$10 CM) SUMMARY SHEET 3 OF	R 40,0030) Release Tracking Number
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1:	Racelving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Receiving Facility/Temporary Storage Representative: Date of Receipt Time of Receipt: PAM PM PM PM PM PM PM PM
Load 2: Signatiur of Transporter Representative;	1,
Dale of Shipment Time of Shipment: 1-17-03 11:15 AM PM. Truck/Tractor Registration: 50569 19798	Receiving Facility/Temporary Storage Representative:
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./ions):
5 P 17	Least Size (on Justicia)
Load 4: Signatiure of Transporter Representative: Date of Shipment Time of Shipment: AM . PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Stra (cu. yds.Aona):
Load 5: Signature of Fransporter Representative:	RecaMng Facility/Temporary Storage Representative:
Oald of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM Load Size (cu, yds./lone):
Load 6: Signature of Transporter Representative:	Receiving Facility/Tamporary Storage Representative:
Dale of Shipment Time of Shipment AM PM Truck/Tractor Regissation: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./lons):
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Massachusetts Department of Environmental Protection BWSC-012B Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CMR 40.0030) Release Tracking Number SUMMARY SHEET I. LOAD INFORMATION: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Load 1: Time of Shipment: 7 0 0 Date of Shipment Truck/Tractor Registration: Trailer Registration (if any) Load Size (cu. yds./tcns): Signatiure of Transporter Representative: Load 2: Receiving Facility/Temporary Storage Representative: Time of Shipment: 12:00 Date of Receipt: Truck/Tractor Registration: Trailer Registration (if any): Load 3: Signature of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: AM PM Time of Receipt: JAM []PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./lons): Signature of Transporter Representative

The Architecture	111	2.3			
Time of Shipment	Min	U F	Time of Receipt:	Пам	TI PN
Trailer Registratio	Mll	do co ma s.	ions):	L	
Transporter Represer	Do	()	emporary Storage Representative	e!	
Time of Shipment:	☐ AM ☐ P	Date of Receipt:	Time of Receipt:	ДАМ	☐ PM
Trailer Registration (i	if any):	Load Size (cu. yds./t	ans):		
Fransporter Represental	tive:	Receiving Facility/7	emporary Storage Representative	:	
Time of Shipment	AM P	Date of Receipt:	Time of Receipt:	MASA [□РМ
Trailer Registration (il	fany):	Load Size (cu. yds.#c	ens):		
	Trailer Registratio Transporter Represer Time of Shipment: Trailer Registration (Transporter Representa Time of Shipment:	Transporter Represer Time of Shipment: AM P Trailer Registration (if any): Transporter Representative: Time of Shipment:	Trailer Registratio Mucdo S.* Transporter Represer Time of Shipment: AM PM Trailer Registration (if any): Transporter Representative: Receiving Facility/T Time of Shipment: AM PM Trailer Registration (if any):	Transporter Represer Time of Shipment: AM PM Trajier Registration (if any): Load Size (cu. yds./tons): Transporter Representative: Receiving Facility/Temporary Storage Representative Time of Shipment: Date of Receipt: Time of Receipt: Date of Receipt: Time of Receipt: Date of Receipt: Time of Receipt:	Transporter Represer Time of Shipment: AM PM Date of Receipt: Time of Receipt: AM Trailer Registration (if any): Receiving Facility/Temporary Storage Representative: Time of Shipment: Date of Receipt: Time of Receipt: AM Receiving Facility/Temporary Storage Representative: Time of Shipment: Date of Receipt: Time of Receipt: AM Trailer Registration (if any):

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Massachusetts Department of E Bureau of Waste Site Cleanup	Environmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 CM	1R 40.0030) Kt K Release Tracking Number
DEP SUMMARY SHEET OF	
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1:	Receiving Sacility/Temporary Storage Representative:
Date of Shipment 1-17-03Time of Shipment: 633	Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any):	1-11-0) 9:00 AM I PM
20250 MA 62915 MA	Load Size (cu. yds./tons): 28.59
Load 2: Signative of Transporter Representative: Date of Shipment: /-/7.03 Time of Shipment: //25 AM PM	Redeiving Facility/Temporary Storage Representative:
Truck/Tractor Registration: Trailer Registration (if any):	1-11.09 1:15
20250 MA 62915 MA	Load Size (cu. yds./tons): 27.77
Load 3: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt:
Truck Tractor Registration: 1):	
Univer	Load Size (cu. yds./tons):
Load 4: reeds to	Receiving Facility/Temporary Storage Representative:
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Truck/Tractor Reg	Load Size (cu. yds./lons):
Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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ruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Total Carried Forwa	ard (cu. yds./lons): 36 36 ard (cu. yds./lons): 350 . 16 ard and Tris Page (cu. yds./lons): 304 . 6

BWSC-012B

BILL OF LADING (pursuant to 310 CM DEP SUMMARY SHEET	
I. LOAD INFORMATION: Signatiure of Transporter Representative: Load 1: Date of Shipment	BROCIAM BUDGE Date of Receipt: Time of Receipt:
Load 2: Signatiure of Transporter Representative: Where Grand Date of Shipment: 1-17-03 11:43 Truck/Tractor Registration: 29858 M M 29858 M M	1.17.09
Load 3: Signativre of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt:
Load 4: Signatiure of Transporter Representative: Date of Shipment Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
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oad 6: Signatiure of Transporter Representative: ale of Shipment Time of Shipment: AM PM auck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
Total Carried Forwa	rded This Page (cu. yds/tons) 10 (cu. yds/tons): 306 - 52 10 and This Page (cu. yds/tons): 367 - 53

Bill OF LADING (pursuant to 310 CM DEP SUMMARY SHEET OF	IR 40.0030) Release Tracking Num
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: 600 Signature of Transporter Representative: 100	BROCKEN LANDOW
Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM Load Size (cu. yds/lons):
Date of Shipment Time of Shipment AM . PM Truck/Tractor Registration: Trailer Registration (If any):	Recalving Facility/Temporary Storage Representative: Date of Receipt:
Load 5: Signature of Fransporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: + Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt:
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BWSC-012C

BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET _____ OF ____

ant to 310 CMR 40.0030)	Ralease Tracking Number
1 OF 2	NAT-

K. SUMMARY OF SHIPMENTS: Date of Shipment:	Date of Receipt:	Number of Loads Shipped:	Daily Volume Shipped (cu. yds./tons):
1/7/03	1/7/03	4	120-48
1/8/03	1/8/03	8	243.80
1/9/03	1/9/03	20	645.69
1/10/03	1/10/03	20	581:47
	×		
0			Janiar .
	245 - 141 0 460 (************************************),, , , , , , , , , , , , , , , , , , ,
Summary Shee	t Total Shipped:	52	1591,44
Bill of Lading To (only if differen		52	1591,44 4,685.73

Revised 10/3.74

Page 1 of 2

D E P

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012C

BILL OF LADING (pursuant to 310 CMR 40.0030)

SUMMARY SHEET ______ OF ____

K. SUMMARY OF SHIPMENTS: Date of Shipment:	Date of Receipt:	Number of Loads Shipped:	Daily Volume Shipped (cu. yds./tons):
1/13/03	1/3/03	20	537-84
1/14/03	1/14/03	21	569-39
1/15/03	1/15/03	28	755:53
1/16/03	1/16/03	28	808.91
1/17/03	1/17/03	14	422-62
Summary Shee	t Total Shipped:	111	3,094.29
Bill of Lading To (only if differen		163	3,094.29

BWSC-012C

BILL OF LADING (pursuant to 310 CMR 40.0030

	DILL OF DIDITO (Paradam to a to an		Transfer in Early 3 (Marriage)
DEP	SUMMARY SHEET		- NIA
ONLY CO	MPLETE ONE COPY OF THIS PAGE AND	ATTACH TO THE FINAL COPY OF	THE SUMMARY SHEET.
L. ACKNOWLEDG	MENT OF RECEIPT OF REMEDIATION W	ASTE AT RECEIVING FACILITY OF	R TEMPORARY STORAGE:
Receiving Facility/Tem	porary Storage Representative (print):	ELS-THATCHERST.	LE- GLOCKTON, MA
	ANILE FARREN		COOD.
Signature:	Janie Farren	Date:	2/3/03
	MENT OF SHIPMENT AND RECEIPT OF F		N
I certify under penalties documents accompanyi material information con	of law that I have personally examined and am familing this certification, and that, based on my inquiry on tained in herein is, to the best of my knowledge and not limited to, possible fines and imprisonment, for	iar with the information contained in this so f those individuals immediately responsible belief, true, accurate and complete, I am	e for obtaining the information, the aware that there are significant
Signature:	JMMS-	Date:	1/2/03
Name of Person (print):	Jim Heneburg		, ,



BWSC-012A

BILL OF LADING (pursuant to 310 CMR 40.0030)

Market W. A.	
Street Patton Road	Location Aid Cold Spring Road
City/Town: Ayer	ZIP Code: 31€32
Date/Period of Generation: 9/3/02 to: 1/21/6 3 Additional Release Tracking Numbers Associated with this Bill of Lading:	ORIGINAL
* Note: If this Bill of Lading is the result of a Limited Removal Action (LRA) ta	nken prior to Notification, a Release Tracking Number is not needed
B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WIT	H BILL OF LADING:
Name of Organization: Stone & Webster Construction, Inc	C.
Name of Contact: Jim Henebury	Title
Street: 45 Patton Road	
City/Town: Ayer	State MA ZIP Code: 01432
Telephone: (978) 284~0900 Ext: 910	
Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5 Other Person: Contractor for Generator - US Army ((D)
and office and of operator is not conducting the response action associated	ciated with the Bill of Lading, provide on an attachment the name
contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Carney Brcs. Trucking Contact Person; Janice Farren	N. H. S. W. Lee
contact person, address and telephone number, including J. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Janice Farrer	gany area code and extension, for each, if known. (DOT reg. # - 3171030)
contact person, address and telephone number, including J. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Gontact Person; Janice Farren	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Tille Industrial Coordinator MA 02767
contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Janice Farren Street: 1958 Broadway Cily/Town: Raynham	gany area code and extension, for each, if known (DOT reg. # - 3171030) Tille Industrial Coordinator
contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Janice Farren Street: 1958 Broadway	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Tille Industrial Coordinator MA 02767
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Street: 1958 Broadway Cilly/Town: Raynham Telephone: (508) 824-4071 Ext. 197	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Tille Industrial Coordinator MA 02767
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Street: 1958 Broadway Cily/Town: Raynham Telephone: (508) 824-4071 Ext. 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Tille Industrial Coordinator MA 02767
Contact person, address and telephone number, including J. TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person: Street: 1958 Broadway Gily/Town: Raynham Telephone: (508) 824-4071 Ext.: 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- That cher Street Landfill	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Tille Industrial Coordinator State: MA ZIP Code: 02767
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Janice Farren Street: 1958 Broadway Cilly/Town: Raynham Telephone: (508) 824-4071 Ext. 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- That cher Street Landfill Contact Person: Janice Farren	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Title Industrial Coordinator State: MA ZIP Code: 02767
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Janice Farrer. Street 1958 Broadway Cilly/Town: Raynham Telephone: (508) 824-4071 Ext. 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- Thatcher Street Landfill Contact Person: Janice Farren Street: Thatcher Street Cilly/Town: Brockton	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Title Industrial Coordinator State: MA ZIP Code: 02767 Title: Industrial Coordinator
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Janice Farren. Street 1958 Broadway Cily/Town: Raynham Telephone: (508) 824-4071 Ext. 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- Thatcher Street Landfill Contact Person: Janice Farren Street: Thatcher Street Cily/Town: Brockton Telephone: (508) 828-5075 Ext. Type of Facility: Asphalt Batch/Cold Mix Landfill/Daily Caver Landfill/Daily Caver Landfill/Strustural F	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Title: Industrial Coordinator State: MA ZIP Code: 02767 Title: Industrial Coordinator State: MA ZIP Code: 02128 Incinerator
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Street: 1958 Broadway Cilly/Town: Raynham Telephone: (508) 824-4071 Ext. 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- Thatcher Street Landfill Contact Person: Janice Farren Street: Thatcher Street Cilly/Town: Brockton Telephone: (508) 828-5075 Type of Facility: Asphalt Balch/Cold Mix Landfill/Disposal Landfill/Daily Caver Landfill/Daily Caver Landfill/Strustural F	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Title Industrial Coordinator State: MA ZIP Code: 02767 Title: Industrial Coordinator State: MA ZIP Code: 02128 Incinerator
Contact person, address and telephone number, including TRANSPORTER OR COMMON CARRIER INFORMATION: Transporter/Common Carner Name: Carney Brcs. Trucking Contact Person; Street: 1958 Broadway Cilly/Town: Raynham Telephone: (508) 824-4071 Ext. 197 E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: NELS- Thatcher Street Landfill Contact Person: Janice Farren Street: Thatcher Street Cilly/Town: Brockton Telephone: (508) 828-5075 Type of Facility: Asphalt Balch/Cold Mix Landfill/Disposal Landfill/Daily Caver Landfill/Daily Caver Landfill/Strustural F	gany area code and extension, for each, if known. (DOT reg. # - 3171030) Title Industrial Coordinator State: MA ZIP Code: 02767 Title: Industrial Coordinator State: MA ZIP Code: 02128 Incinerator Temporary Storage Other: Other: Temporary Storage



BWSC-012A

BILL OF LADING (pursuant to 310 CMR 40,0030)

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etcy cling, INC.
4 ZIPCODE OLYZU
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re Water O Other:
Demolition/Construction Waste
O Other:
Containers O Druins
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PAHS POSTICIDES
Other: +155000
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Massachusetts Department of Environmental Protection

BWSC-012A

Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40,0030)

	Release Trackin	ig Number
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H. CE	ERTIFICATION	OF PERSON	CONDUCTING RESPO	NSE ACTION	ASSOCIATED	WITH THIS I	BILL OF	LADING:
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certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the meterial information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and Imprisonment, for willfully submitting false, inaccurate, or incomplete information,

Signature:	VM27	Date:	12/10/02
Name of Person (print):	Jim Howerury	/	7-7-

RESPONSE ACTION NOT CONSIDERED CONGRED UNDER MCP. DISPOSAL OF HISTORIC FILL ABOVE 5-1 CONDITIONS AND WITHIN UNLINED-LANDFILL SOIL REUSE GUIDELINES FOR DAILY COVER MATERIAL

MATERIAL CONSISTED UNDER CRCLA CLEANUP FOR U.S. ARMY CORPS OF ENCINEERS UNDER THE DEVENS LANDALL ROMEDIATION PROJECT (CONTRACT NO. DACKS 33-97-D-OCK, DELICERY cross No. 10).

GENERATOR INFORMATION AS FOLIAUS:

US ARMY CORPS OF ENGINEERS SO MACARTHUR ROAD DEVENS, MA C1432 (978)772-0148

CONTACT: JOHN MCDOWERL CONSTRUCTION, REPRESONTATIVE

HEIRS

BILL OF LADING (pursuant to 310 CMR 40.0030)

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SUMMARY SHEET OF	7

Release	Tracking	Number

BWSC-012B

I. LOAD INFORMATION: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative;
Load 1: Date of Shipment Time of Shipment	Brockson KANOTILE (DUA)
1 Inte of Shipthen.	
1-20-03 ⊠AM □PM	Date of Receipt: Time of Receipt: 9:25
Truck/Tractor Registration: Trailer Registration (if any):	7.25
33203	Load Size (cu. yds ons): 28-35
Load 2: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Parts of Shipman	Reachement
Time of Shipment:	Date of Receipt: Time of Receipt;
AM R PM	11-20-03 DIDY DAM 1-1
Truck/Tractor Registration: Trailer Registration (if any);	11-000
33203	Load Size (cu. yds./tons):
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Ship——	
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	Load Size (cu. yds./fons):
oad 6: Signatiure of Transporter Representative:	Resident States Comments (Inc.)
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Date of Shipment Time of Shipment:	
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BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)

irsuant to	310 CMR 40.0030)	Release Tracking Number
2	of <u>7</u>	

DEP SUMM	ARY SHEET _	2	_ OF _	7		+	
I. LOAD INFORMATION: Load 1: Date of Shipment	Signatiure of Tran	le Gu		Receiving Facility/Temporary BROCKTON	Storage Representative	d	wa
1-20-03	6:30	□ AM	□ РМ	Date of Receipt:	Time of Receipt:	(JAN	Ph
Truck/Tractor Registration: 20781	Trailer Registration	1858		Load Size (cu. yds./tons):	32-66		
Load 2: Signatiure of Ti	ransporter Represen	tative:	b	Receiving Facility/Temporar	y Storage Representativ	e:	EAF)
Date of Shipment	Time of Shipment:			BROCK	Wings	un	y.
1-20-03	11:30	P WAM	☐ PM	Date of Receipt:	Time of Receipt:	☐ AM	- PM
Truck/Tractor Registration:	Trailer Registration			1-20-03	1.57		
20781	2985	5-8		Load Size (cu. yds./tons):	31.07		
Load 3: Signatiure of Tr	ansporter Represent	tative:		Receiving Facility/Temporary	Storage Representative	:	
Date of Shipment:	Time of Shipment:	MA	□ РМ	Date of Receipt:	Time of Receipt:	□ AM	Прм
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BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)

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SUMMARY SHEET	4	OF/_	

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	Massachusetts Department of E Bureau of Waste Site Cleanup	nvironmental Protectio	n BWSC-012B
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BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)

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BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)

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Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup

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BILL OF LADING (pursuant to 310 CMR 40,0030)

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012C

BILL OF LADING (pursuant to 310 CMR 40.0030)

IMMARY SHEET	OF

Release Tracking Number

SUMMARY OF SHIPMENTS: Date of Shipment:	Date of Receipt:	Number of Loads Shipped:	Daily Volume Shipped (cu. yds./tons):
1/20/03	1/20/03	14	420.46
1/21/03	1/21/03	4	124,73
Summary S	heet Total Shipped:	18	545.19



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012C

BILL OF LADING (pursuant to 310 CMR 40.0030	Release Tracking Number
D E P SUMMARY SHEET	- NA
ONLY COMPLETE ONE COPY OF THIS PAGE AND ATTACH TO THE F	FINAL COPY OF THE SUMMARY SHEET.
L. ACKNOWLEDGMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVE	NG FACILITY OR TEMPORARY STORAGE:
Receiving Facility/Temporary Storage Representative (print): NELS - THATCH	FER ST LF- BROCKTON, MA
Tailor Tagan	Title:
Signature: Januar Januar D	Date: $2/10/03$
M. ACKNOWLEDĞMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WA CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LAD	
I certify under penalties of law that I have personally examined and am familiar with the information documents accompanying this certification, and that, based on my inquiry of those individuals implemented in formation contained in herein is, to the best of my knowledge and belief, true, accurate a penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting falsonal times.	n contained in this submittal, including any and all nediately responsible for obtaining the information, the and complete. I am aware that there are significant
Signature:	Date: Q 14 03
Name of Person (print): Jim Hene burg	

APPENDIX 8-D

Off-Site Waste Disposal Profiles, Manifests and Bills of Lading – AOC 41

APPENDIX 8-E

Off-Site Waste Disposal Profiles, Manifests and Bills of Lading – SA 12

J.P. ROUTHIER & SONS

256 AYER ROAD LITTLETON, MA 01460 (978) 772-4251

Name	Stone Y	W	Lite	<u>۔</u>	Jekst .
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S. G	N TRUCKING, 6 Farnum Street RAFTON, MA 01560 ffice (508) 839-5675 GER (508) 327-5675	
STORY &	CIEBSTER ADC 12	7-16-02
TRAILER L	JANS STUA	ifs out
CHSEY	2105	- (75)
	(
	Afr	
Not responsible for	damage beyond curb line.	
RECEIVED BY	TAX	
33,36	TOTAL	

To Reorder: 800-25-6380 or nebs.com

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iest respunsib	le for damage beyond curb line.	
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	TOTAL	1

APPENDIX 8-F

Off-Site Disposal Profiles, Manifests and Bills of Lading – SA 13

ap Tron & Steel 200 V.F.W. HIGHWAY ROCKLAND, MA 02370	SELLER CONTESTS	webster ,no	7
1-0004 FAX (781) 356-4535	BUYER Stone +	, MD	
	ADDRESS	07149	
9 41 7 147	5.11		ZIP
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	4494	07149	
s 47 0x0°1	- 00	05-22-01	
70-37-60 694 <i>2</i> 0	2200	35940 lt S	
		SA-13	S
MARKS:	n _p		:
UCK NO.	DRIVER ON OFF	WEIGHED BY	
TICK Charged From PLOOM CONTRACTING RAPOULPH PO. DOLFH No. 10 = 204			
MDITY	804034 49510A 30440		
*	Stone + meiss	SA-13	DISPOSAL
	ALL WEIGHTS ARE REPORTED IN POURDS UNLES	SS OTHERWISE DIDICATED	FEE
OTAS STATE	80480 69540 30940	1.00	وتواد
W HMASTER SIGNATURE		I ORS Date 05/24/01 P ort ORS Time 12:45 (1 1 TRE Date 05/24/01)	13,6129 13,6129
CUSTOMER SIGNATURE	DESCRIE A NEWWOLK WEIGHT	I TRE Time 15:13 7:45	

APPENDIX 9

Seed Mixes

LESCO INC., 15885 SPRAGUE ROAD STRONGSVILLE, OH. 44138

Product:

Item: 841722

* * CONSERVATION MIX

LOT NUMBER: 6-02-29

COMPONENT % PURITY % GERM ORIGIN

39.47 CREEPING RED FESCUE 90.00 CN 24.87 ALLSPORT PERENNIAL RYEGRASS 90.00 OR 19.78 KENTUCKY BLUEGRASS 89.00 WA 9.96 ANNUAL RYEGRASS 90.00 OR 5 10 WHITE CLOVER 90.00 OR

OTHER INGREDIENTS

NOXIOUS WEEDS:

AMS 635

NONE FOUND

U 00 OTHER CROP SEEDS

0.79 INERT MATTER

0.05 WEED SEED

DATE TESTED: 12/01

NET WEIGHT: 50 LBS

SHIP TO: LESCO GW

9006 Mercer Pike, Meadville, PA 16335-9299

(814) 336-2404 or (800) 873-3321 NOT WETLAND

Upland Mix 2

ITEM	1 .	BOTANICAL NAME	PURIT	Y GERM	HARD	DORM	ORIGIN
mooth Panicgrass	1	Panicum dichotomiflorur	n 19.11	1% 5%		88%	PA
irginia Wild Rye	1	Elymus virginicus	14.79	90%			PA
eertongue, Tioga	7	Panicum clandestinum	9.88	5% 32%	6	60%	PA
iagara Big Bluestem	,	Andropogon gerardii v. I	Viagar 8.69	9% 81%	6	6%	PA
ittle Bluestem	1	Andropogon scoparius				2%	.WI.
)sage Indiangrass	*	Sorghastrum nutans	7.8			59%	MO
common Broomsedge	k.	Andropogon virginicus	4.6	8% 35%	6	56%	
common Milkweed	¥	Asclepias syriaca	4.5	9% 859	6		PA
rairie Cordgrass	No.	Spartina pectinata	3.1	7% 959			MN
Partridge Pea	11	Chamaecrista fascicula	ta 2.9	159	% 80%	6	MN
Vew York Aster	¥	Aster novi-belgii		2% 40		*	PA
Staghorn Sumac	*	Rhus typhina		00% 62			PA
em Arrowwood	•	Viburnum dentatum	1.0	00% 90			PA
G, Dogwood		Cornus racemosa		00% 56			PA
Gray Birch	4	Betula populifolia					
OTHER CR	QP:	0.50% NE	T WEIGHT:	50 LB			
INERT MATT	ER:	9.03% LOT	NUMBER:	LESC00	164		
WEED SE	ED:	0.46% DAT	E TESTED:	January :	2001		
	'n						

PEA & VETCH INOCULANT MIXED IN - EXP. 12/01



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ERNST Conservation Seeds

9006 Mercer Pike, Meadville, PA 16335 (814) 336-2404 fax: (814) 336-5191 e-mail: ernst@ernstseed.com (800) 873-3321 web: www.ernstseed.com

0			Upland	Mix 1				1
	ITEM		i	uriyy "c	ERM - HER	D- DORM	3/2	514
0	Bilky Dogwood.		4	49.33%	73%		PA	
rrr	Rel Maple			19.893	90%		FA	
0	American Mannag	itaea.		9.83%	705		PA	1
	Buttonbush			9.52%	80%	*	PA	1
8	Fringed Sedge	(crimita)		2.90%	70%		PA	1
	Lurid Sedge			2.45%	75%		PA	
0	Joe Pye Weed			1.56%	563		PA	
	Bcneset			1.20%	70%		PA	
. 0	OTHER CROP:	0.02%	NET	WEIGHT:	35 LB			
× 40	INERT MATTER:	3.28%	LOT	NUMBER:	LESCOOL	63		
	WEED SEED:	0.025	DATE	TESTED:	Jenuary	2001		
0		*		16.				

Seeds for Conservation Use.

Ernst Conservation Seed

9006 Mercer Pike, Meadville, PA 16335-9299 (814) 336-2404 for (800) 873-3321

Upland Seed Mix

ITEM	BOTANICAL NAM	15	PURITY	GERM	HARD	DORM	ORIGIN
Shawnee Switchgrass	Panicum virgatum	Shawnee	19.78%	30%		34%	PA
Riverbank Wild Rye	Elymus riparius	-	14.91%	94%		1%	PA
Deertongue, Tioga	Panicum clandesti	กเนา	9.98%	88%			PA
Itasca Little Bluestem-MN Eco	Andropogon scope	arius Itasca-	8.78%	96%			MN
Niagara Big Bluestem	Andropogon gerar	dii v. Niagar	8.51%	77%		18%	MO
Nebraska 54 Indiangrass	Sorghastrum nutai	ns	8.06%	47%		37%	MO
Common Milkweed	Asclepias syriaca	•	4.59%	87%			PA
Common Broomsedge	Andropogon virgin	icus	3.77%	95%			MO
Partridge Pea	Chamaecrista fasc	ciculata	3.00%	57%	5%		PA
White Heath Aster	Aster ericoides	4-	2.00%	15%		32%	PA
Prairie Cordgrass	Spartina pectinata	*	1.82%	91%			CN
Stanhorn Sumac	Rhus typhina	1	1.00%	6 56%			PA
N iern Bayberry	Myrica pensylvania	G <i>E</i> .'	0.98%	6 77%			NJ
Pitch Pine	Pinus rigida	1	0.97%	6 99%			NY
Gray Birch	Betula populifolia	k.	0.85%	66%			PA
OTHER CROP:	0.12%	NET WEIGH	HT: 50	LB			
INERT MATTER:	10.80%	LOT NUMBI	ER: GF	REE0520)4		

WEED SEED:

0.08%

DATE TESTED: October 2001

APPENDIX 10

Approval Letters for Revised Grading Plan – AOC 9



Stone & Webster Construction, Inc. A Shaw Group Company Devens Landfill Remediation Project 45 Parton Road Ayer, Massachusetts 01432

Ayer, Massachusetts 01432 (978) 784-0900 (978) 784-0999 Fax

Mr. Gary Morin, Construction Manager US Army Corps of Engineers - NE District 50 MacArthur Boulevard Devens, Massachusetts 01432 February 12, 2002 TFP 02-061

USACE Contract DACW33-97-D-002, Delivery Order No. 0010 Devens Landfill Remediation Project Devens, Massachusetts PROPOSED AOC-9 FINAL GRADING

Dear Gary:

Stone & Webster Construction, Inc. (Stone & Webster) has revised the proposed grading plan as discussed at the project status meetings. MassDevelopment originally proposed this plan to bring the restored remedial area to above the flood plain elevation. Stone & Webster has provided four copies of the proposed drawing as revised by extending the subject slope back to the allowable limits per MassDevelopment's environmental consultant's review.

The revised plan shows grading the northwest slope to the allowable limits (125-feet beyond contract drawing design) as provided by MassDevelopment's environmental consultant. Since the slope grade drops as we extend back to the west, Stone & Webster will be able to provide sufficient volume of fill required to meet the intended grades of MassDevelopment's proposed finish grades. Stone & Webster will also be able to produce enough fill to eliminate our cost of purchasing our contractually committed volume (44,500 cy) from an outside source. The value of eliminating the cost for purchasing fill therefore reduces the overall contracted project cost to offset the additional work required to complete the proposed grading plan. A copy of the volume calculations is also provided with this letter. The following is a breakdown of our value assessment.

Total Cost to Regrade/Fill/Compact MassDevelopment Grading Plan

59,100 cy x \$2/cy = \$118,200

Tree Clearing = \$ 12,000

Testing = \$ 11,000 (Chemical/Geotechnical Analytical)

20 Days \times \$1,500/day = \pm 30,000 (Supervision, survey, engineering)

\$ 191,200 Additional Cost for Grading

Difference between MassDevelopment Grading Plan and Contract Finish Grading Plan

6,100 cy Cut 53,000 cy Fill

46,900 cy Excess Fill

Stone & Webster Savings due to Fill Produced from MassDevelopment Grading

44,500 cy x \$6/cy = (\$267,000) (Cost of fill from outside source)

= \$191,200 (MassDevelopment Extra Work)

(\$ 75,800) Savings by Regrading and using On-site Fill

Mr. Gary Morin, Construction Manager US Army Corps of Engineers - NE District February 12, 2002

These savings do not account for over excavated quantities (currently 19,250 cy) due to extended depths of debris from original contract drawings. These savings could help offset the cost for additional fill needed to backfill the deeper excavation areas. The \$75,800 would equate to purchasing approximately 12,600 cy of extra fill. Concrete reuse, material segregated from the wetlands area and excess fill produced during grading of the north west slope would offset the remainder of the fill volume at AOC-9. Although fill prices were not provided in the original estimate, the cost was accounted for in the latest MOD request which could be reduced by at least \$75,800 if the proposed MassDevelopment grading plan was implemented.

Should you have any questions regarding this submittal or require further calculations and details, please do not hesitate to contact me at your convenience.

Sincerely,

Stone & Webster Construction, Inc.

Jim Henebury, P.E. Construction Manager

Attachments

c: Project Correspondence

Net Cut Fill cu.yds Method cu.yds cu.yds (SHU CONTRACT VOLUMIES) VOLUME REPORT: USACE Final to USACE Excavation Stratum: USACE Final to Original 20696 97597 76901 (F) Composite Stratum: Original to USACE Excavation 125122 121392 (C) Composite PURCHAS 2 44,500 C 44491 (C) Composite TOTAL 145818 101327 VOLUME REPORT: MADEV Final to USACE Excavation Stratum: MADEV Final to Original 123787 (F) Composite 150598 26811 Stratum: Original to USACE Excavation 121392 (C) Composite 125122 3730 154328 2395 (F) Composite ~ 2,400 C

CUT GIOC CY
FILL 53,000 CY
ST,100 CY REQUIRED GRADING

5.3001

VOLUME REPORT: USACE FINAL to MADEV FINAL (DIFFERENCE OF PROPOSED GRADING

46,900 CY EXCESS FILL PRODUCED

46886 (F) Composite

TOTAL 151933

Stratum: USACE Final to MADEV Final

6115

APPENDIX 11

MADEP Letter to USACE – August 13, 2001



ASSDEVELOPMENT

Mr. Ben Goff

BRAC Environmental Office

Bldg. 666

30 Quebec Street

Devens, MA 01432

Date:

June 3, 2002

RE:

AOC 9 Restoration Plan

43 Buena Vista Street Devens, Massachusetts

Dear Mr. Goff,

01432

Tel: 978-772-6340 Fax: 978-772-7577 www.devenscenter.com I have completed a review of the revised grading plan for AOC-9. The plan is consistent with the finish grades MassDevelopment has requested and with the additional clearing and excavation limits discussed at the landfill status meetings.

Mid Ja 1552

VERSTER CONSTRUCT EMS LAND, LINE

Main Office: 75 Federal Street Boston, Massachusetts Attached is a letter from our environmental consultant confirming that there are no apparent wetlands within the area to be disturbed.

If you have any additional questions please feel free to call.

Tel: 617-330-2000 800 - 445 - 8030

Fax: 617-330-2001

...... Sincerely,

Sr. Project Engineer

Attachments:

BEC Letter dated June 6, 2001

Jana Sine Governor

Copy:

Alan Delaney

Randy Godfrey

Christine Johnson

Rosert L. Bea.

Chairman

MIDHAEL P. HORAY.

President/CEG



BAYSTATE ENVIRONMENTAL CONSULTANTS

Civil Engineers Environmental Scientists June 6, 2001

Mr. John Marc-Aurele MassDevelopment Devens Commerce Center 43 Buena Vista Street Devens, MA

RE: Evaluation of Landfill Perimeter for Potential Wetland Resources BEC File No. 98-0314-12

Dear John:

As you are aware on June 5, 2001, I evaluated the westerly perimeter of the ongoing landfill operations north of Walker Road for the potential presence of regulated wetland resources. The area evaluated extended approximately 200 feet westerly of the existing perimeter road situated along top of the westerly face of the landfill operation (see attached site map). This entire margin was walked observing vegetation for the potential presence of wetland indicator tree, shrub, and herbaceous species. Predominately, the area was a mature to semi-mature upland forest area dominated by red oak, white pine, grey birch, huckleberry, low bush blueberry, witch hazel, bracken fern and hair cap moss. Soils were checked intermittently especially in lower level depression areas. Soils were typically loamy sands underlain by high chroma sand (7.5 YR 5/6). There were no indications of redoximorphic features either in the A or B horizons within 24 inches of the soil surface that might suggest hydric conditions. The topography of the area varied from moderately sloped areas to steeply sloped terrain with some lower lying depressions, all comprised of sandy outwash. Old dirt roads were present throughout the area generally oriented in north to south direction. There were some areas of compressed or filled soils in lower areas that sustained some hydrophytic vegetation (e.g. sedges, red maple, elderberry). However, all of these soils were consistently non-hydric in all cases. The only wetland observed during this investigation was in the extreme northwest area of the map (see figure) approximately 400 to 500 feet west northwest of the area of concern. This wetland is separated from the area of the landfill by a high sandy esker.

I hope that this information adequately addresses your concerns relative to the potential presence of wetland resources within the general project area. Should you have any questions regarding this analysis do not hesitate to contact this office.

Very truly yours,

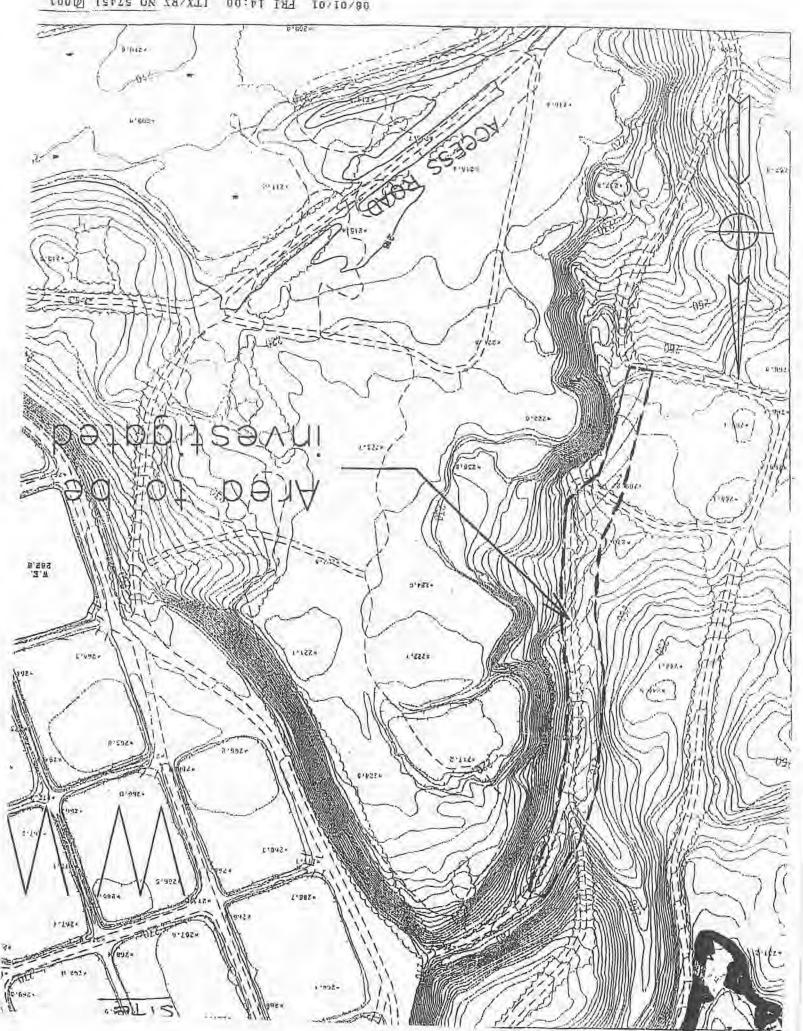
BEC, Inc.

Paul G. Davis, Ph.D., P.W.S., CPSSc Senior Environmental Scientist

enclosure: locus map

296 North Main Street East Longmeadow, MA 01028 Tel (413) 525-3822 Fax (413) 525-8348

> Other Office: East Hartford, CT





COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Regional Office, 627 Main Street, Worcester, MA 01608

BOB DURAND Secretary LAUREN A. LISS Commissioner

August 13, 2001

Mr. Benjamin F. Goff 30 Quebec Street Box 100 Devens, MA 01432

Re: Letter, James A. Morocco, August 7, 2001, Subject: Analytical Justification of Reuse of Barnum Road Stockpile and PAH Contaminated Soil Stockpile in the Devens Consolidation Landfill

Dear Mr. Goff,

The Massachusetts Department of Environmental Protection (MADEP) has reviewed the above referenced letter and concurs with the reuse of the Barnum Road and West Rail soil stockpiles as construction materials in the consolidation landfill consistent with the requirements of COMM-97-001, Reuse and Disposal of Contaminated Soil at Massachusetts Landfills, August 1997.

The historical analytical data summary presented in Mr. Morocco's letter indicates that a limited amount of the Barnum Road stockpile failed to meet COMM 97-001 standards for VOCs, TPH and PAHs at the time of excavation. Given the period of time that has elapsed since these soils were excavated and the fact that they were subsequently subjected to much mixing and movement, it is anticipated that the soils no longer exceed the contaminant levels detailed in Table 1 of COMM 97-001. However, to ensure that the requirements of the policy are being met, the MADEP recommends that both a laboratory and field sampling program be implemented for the Barnum Road soils to preclude the introduction of inappropriate material into the consolidation landfill. Although the West Rail soil already appear to meet the policy's requirements, it is recommended that these soils be subjected to the laboratory analyses noted in the Army's letter together with an appropriate level of fields screening.

The MADEP recommends that the laboratory program initiated for the Barnum Road soils incorporate at least five composite samples, per guidance outlined in DEP's Guidance for Disposal Site Risk Characterization, and be analyzed in accordance with the requirements of

Table 1 of COMM 97-001. Field screening plans for the Barnum Road stockpile should incorporate the use of photoionization detector screening for VOCs and either immunoassay or turbidimetric screening for TPH. TPH screening should be conducted for composite samples from each 500 cubic yard aliquot of the Barnum Road soils. A similar program should be implemented for the West Rail stockpile. However, given the constituents of this pile, the collection of three laboratory samples and screening for only PAH/TPH would be appropriate.

Please contact the undersigned at (508) 767-2840 should you have any questions regarding the reuse of these soils.

Sincerely,

John Regan Project Manager

CERO Federal Facilities

cc: James Morocco, ACE
Carol Keating, EPA
Ron Ostrowski, MassDevelopment
Randy Godfrey, ACE
Gary Morin, ACE
David Margolis, ACE

APPENDIX 12

Barnum Road Stockpile Analytical Data



13. Herrick Street, Merrimack, NH 03054 TEL: (603) 424-2022 · FAX: (603) 429-8496

September 26, 2001

Jeffrey Shea
Stone & Webster Construction Co.
45 Patton Road
Ayer, MA 01432

TEL: (978) 784-0900 FAX: (978) 784-0999

RE: 068511000 Devens Landfill

Order No.: 0109127

Dear Jeffrey Shea:

AMRO Environmental Laboratories Corp. received 6 samples on 9/19/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of $\uparrow \uparrow \downarrow$ pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

Nancy Stewart

Vice President / Lab Director

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Lab Order:

0109127

Date Received: 9/19/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0109127-01A	DLRP-SP-196	9/18/01
0109127-01B	DLRP-SP-196	9/18/01
0109127-01C	DLRP-SP-196	9/18/01
0109127-01D	DLRP-SP-196	9/18/01
0109127-02A	DLRP-SP-197	9/18/01
0109127-02B	DLRP-SP-197	9/18/01
0109127-02C	DLRP-SP-197	9/18/01
0109127-02D	DLRP-SP-197	9/18/01
0109127-03A	DLRP-SP-198	9/18/01
0109127-03B	DLRP-SP-198	9/18/01
0109127-03C	DLRP-SP-198	9/18/01
0109127-03D	DLRP-SP-198	9/18/01
0109127-04A	DLRP-SP-199	9/18/01
0109127-04B	DLRP-SP-199	9/18/01
0109127-04C	DLRP-SP-199	9 18 01
0109127-04D	DLRP-SP-199	9 18 01
0109127-05A	DLRP-SP-200	9 18 01
0109127-05B	DLRP-SP-200	9 18 0 1
0109127-05C	DLRP-SP-200	9 18 01
0109127-05D	DLRP-SP-200	9 18 01
0109127-06A	TRIP BLANK	9/18/01

Stone & Webster Construction Co.

Project: 068511000 Devens Landfill

Lab Order: 0109127

CASE NARRATIVE

Date: 26-Sep-01

MADEP-VPH

CLIENT:

1. The batch duplicate 0109105-03A had a recovery for the surrogate 2,5-Dibromotoluene outside the QC limits (70-130%).

MADEP-EPH

- 1. All samples received in clear glass containers as opposed to amber glass containers as specified by the method.
- 2. The batch duplicate sample (0109138-10) had most %RPD's above the QC limits due to sample specific non-homogeneity.

GC/ECD-PESTICIDES

- 1. The surrogate Decachlorobiphenyl recovered above the laboratory control limits (27-152%) in samples 0109127-03C, 0109127-04C, and 0109127-05C due to sample specific matrix interference.
- Some compounds in the continuing calibration standards (CCV) recovered outside the +/- 15% criteria. The average for all analytes met criteria. Refer to the CCV summary sheets included. The rear column was used for quantitation.

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

068511000 Devens Landfill

Collection Date: 9/18/01

Project: Lab ID:

0109127-01C

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic	14	6.3		mg/Kg-dry	1	9/20/01 5:28:11 PM
Barium	ND	25		mg/Kg-dry	1	9/20/01 5:28:11 PM
Cadmium	ND	0.63		mg/Kg-dry	1	9/20/01 5:28:11 PM
Chromium	14	1.3		mg/Kg-dry	1	9/20/01 5:28:11 PM
Lead	17	3.1		mg/Kg-dry	1	9/20/01 5:28:11 PM
Selenium	ND	10		mg/Kg-dry	1	9/20/01 5:28:11 PM
Silver	ND	1.8		mg/Kg-dry	1	9/20/01 5:28:11 PM
MERCURY, 7471A		SW7471A				Analyst: RK
Mercury	ND	0.022		mg/Kg-dry	1	9/20/01
PERCENT MOISTURE		D2216				Analyst: JSL
Percent Moisture	2.5	0		wt%	1	9/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-02C

Client Sample ID: DLRP-SP-197

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic	14	6.4		mg/Kg-dry	1	9/20/01 5:32:37 PM
Barium	ND	26		mg/Kg-dry	1	9/20/01 5:32:37 PM
Cadmium	ND	0.64		mg/Kg-dry	1	9/20/01 5:32:37 PM
Chromium	14	1.3		mg/Kg-dry	1	9/20/01 5:32:37 PM
Lead	14	3.2		mg/Kg-dry	1	9/20/01 5:32:37 PM
Selenium	ND	10		mg/Kg-dry	1	9/20/01 5:32:37 PM
Silver	ND	1.8		mg/Kg-dry	1	9/20/01 5:32:37 PM
MERCURY, 7471A		SW7471A				Analyst: RK
Mercury	ND	0.025		mg/Kg-dry	1	9/20/01
PERCENT MOISTURE		D2216				Analyst: JSL
Percent Moisture	7.0	0		wt%	1	9/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-03C

Client Sample ID: DLRP-SP-198

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic	19	6.5		mg/Kg-dry	1	9/20/01 5:37:02 PM
Barium	ND	26		mg/Kg-dry	1	9/20/01 5:37:02 PM
Cadmium	ND	0.65		mg/Kg-dry	1	9/20/01 5:37:02 PM
Chromium	14	1,3		mg/Kg-dry	1	9/20/01 5:37:02 PM
Lead	23	3.2		mg/Kg-dry	1	9/20/01 5:37:02 PM
Selenium	ND	10		mg/Kg-dry	1	9/20/01 5:37:02 PM
Silver	ND	1.8		mg/Kg-dry	1	9/20/01 5:37:02 PM
MERCURY, 7471A		SW7471A				Analyst: RK
Mercury	0.041	0.026		mg/Kg-dry	1	9/20/01
PERCENT MOISTURE		D2216				Analyst: JSL
Percent Moisture	5.7	0		wt%	1	9/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-04C

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic	13	6.4		mg/Kg-dry	1	9/20/01 5:41:26 PM
Barium	ND	25		mg/Kg-dry	1	9/20/01 5:41:26 PM
Cadmium	ND	0.64		mg/Kg-dry	1	9/20/01 5:41:26 PM
Chromium	13	1.3		mg/Kg-dry	1	9/20/01 5:41:26 PM
Lead	22	3.2		mg/Kg-dry	1	9/20/01 5:41:26 PM
Selenium	ND	10		mg/Kg-dry	1	9/20/01 5:41:26 PM
Silver	ND	1.8		mg/Kg-dry	1	9/20/01 5:41:26 PM
MERCURY, 7471A		SW7471A				Analyst: RK
Mercury	0.055	0.026		mg/Kg-dry	1	9/20/01
PERCENT MOISTURE		D2216				Analyst: JSL
Percent Moisture	5.9	0		wt%	1	9/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

0109127-05C

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic	15	6.4		mg/Kg-dry	1	9/20/01 5:53:26 PM
Barium	ND	26		mg/Kg-dry	1	9/20/01 5:53:26 PM
Cadmium	ND	0.64		mg/Kg-dry	1	9/20/01 5:53:26 PM
Chromium	15	1.3		mg/Kg-dry	1	9/20/01 5:53:26 PM
Lead	28	3.2		mg/Kg-dry	1	9/20/01 5:53;26 PM
Selenium	ND	10		mg/Kg-dry	1	9/20/01 5:53:26 PM
Silver	ND	1.8		mg/Kg-dry	1	9/20/01 5:53:26 PM
MERCURY, 7471A		SW7471A				Analyst: RK
Mercury	0.058	0.025		mg/Kg-dry	1	9/20/01
PERCENT MOISTURE		D2216				Analyst: JSL
Percent Moisture	5.7	0		wt%	-1	9/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

0109127-01A

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 5035	MEDIUM-LEVE	SW8260B				Analyst: Sh
Dichlorodifluoromethane	ND	45		μg/Kg-dry	1	9/24/01 1:54:00 PM
Chloromethane	ND	45		µg/Kg-dry	1	9/24/01 1:54:00 PM
Vinyl chloride	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
Chloroethane	ND	45		µg/Kg-dry	9	9/24/01 1:54:00 PM
Bromomethane	ND	45		µg/Kg-dry	4	9/24/01 1:54:00 PM
Trichlorofluoromethane	ND	45		μg/Kg-dry	1	9/24/01 1:54:00 PM
Diethyl ether	ND	220		µg/Kg-dry	1	9/24/01 1:54:00 PM
Acetone	ND	220		µg/Kg-dry	4	9/24/01 1:54:00 PM
1,1-Dichloroethene	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
Carbon disulfide	ND	45		µg/Kg-dry	1	9/24/01 1:54:00 PM
Methylene chloride	ND	45		µg/Kg-dry	1	9/24/01 1:54:00 PM
Methyl tert-butyl ether	ND	22		µg/Kg-dry	1:	9/24/01 1:54:00 PM
trans-1,2-Dichloroethene	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
1,1-Dichloroethane	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
Tertiary Butanol	ND	2,200		µg/Kg-dry	1	9/24/01 1:54:00 PM
2-Butanone	ND	220		µg/Kg-dry	1	9/24/01 1:54:00 PM
Diisopropyl ether	ND	45		µg/Kg-dry	1	9/24/01 1:54:00 PM
2,2-Dichloropropane	ND	22		µg/Kg-dry	3	9/24/01 1:54:00 PM
cis-1,2-Dichloroethene	ND	22		µg/Kg-dry	3	9/24/01 1:54:00 PM
Ethyl Tertiary Butyl Ether	ND	45		µg/Kg-dry	4	9/24/01 1:54:00 PM
Chloroform	ND.	22		µg/Kg-dry	3	9/24/01 1:54:00 PM
Tetrahydrofuran	ND	220		µg/Kg-dry	1	9/24/01 1:54:00 PM
Bromochloromethane	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
1,1,1-Trichloroethane	ND	22		µg/Kg-dry	4	9/24/01 1:54:00 PM
1,1-Dichloropropene	ND	22		µg/Kg-dry	7	9/24/01 1:54:00 PM
Carbon tetrachloride	ND	22		μg/Kg-dry	1	9/24/01 1:54:00 PM
1,2-Dichloroethane	ND	22	0	μg/Kg-dry	3	9/24/01 1;54:00 PM
Benzene	ND	22		μg/Kg-dry	- 1	9/24/01 1:54:00 PM
Trichloroethene	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
1,2-Dichloropropane	ND	22	S .	µg/Kg-dry	4	9/24/01 1:54:00 PM
Bromodichloromethane	ND	22		μg/Kg-dry	1	9/24/01 1:54:00 PM
Dibromomethane	ND	22		µg/Kg-dry	1	9/24/01 1:54:00 PM
Tertiary Arnyl Methyl Ether	ND	45		μg/Kg-dry	1	9/24/01 1:54:00 PM
4-Methyl-2-pentanone	ND	220		µg/Kg-dry	1	9/24/01 1:54:00 PM
cis-1,3-Dichloropropene	ND	22		μg/Kg-dry	1	9/24/01 1:54:00 PM
Toluene	ND	22	2	µg/Kg-dry	1	9/24/01 1:54:00 PM
trans-1,3-Dichloropropene	ND	22	2	µg/Kg-dry	1	9/24/01 1:54:00 PM
1,1,2-Trichloroethane	ND	22	2	μg/Kg-dry	1	9/24/01 1:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

0109127-01A

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL (Qual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
2-Hexanone	ND	220	µg/Kg-dry	1	9/24/01 1:54:00 PM
1,3-Dichloropropane	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
Tetrachloroethene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
Dibromochloromethane	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
Chlorobenzene	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
1,1,1,2-Tetrachloroethane	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
Ethylbenzene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
m,p-Xylene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
o-Xylene	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
Styrene	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
Bromoform	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
Isopropylbenzene	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
1,1,2,2-Tetrachloroethane	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
1.2,3-Trichloropropane	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
Bromobenzene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
n-Propylbenzene	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
2-Chlorotoluene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
4-Chlorotoluene	ND	22	µg/Kg-dry	1	9/24/01 1:54:00 PM
1,3,5-Trimethylbenzene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM
tert-Butylbenzene	ND	22	μg/Kg-dry	1	9/24/01 1:54:00 PM

22

22

22

22

22

22

22

45

22

22

45

22

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

μg/Kg-dry

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

µg/Kg-dry

ND

Qualifiers:

1.2,4-Trimethylbenzene

sec-Butylbenzene

4-Isopropyltoluene

n-Butylbenzene

Naphthalene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1.2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2,3-Trichlorobenzene

Hexachlorobutadiene

1,2-Dibromo-3-chloropropane

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

1

1

1

1

1

1

1

1

1

9/24/01 1:54:00 PM

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

0109127-02A

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 503	5 MEDIUM-LEVE	SW8260B				Analyst: SK
Dichlorodifluoromethane	ND	50		µg/Kg-dry	1:	9/24/01 2:31:00 PM
Chloromethane	ND	50		µg/Kg-dry	1	9/24/01 2:31:00 PM
Vinyl chloride	ND	.25		µg/Kg-dry	1:	9/24/01 2:31:00 PM
Chloroethane	ND	:50		µg/Kg-dry	1	9/24/01 2:31:00 PM
Bromomethane	ND	50		μg/Kg-dry	1	9/24/01 2:31:00 PM
Trichlorofluoromethane	ND	50		µg/Kg-dry	1	9/24/01 2:31:00 PM
Diethyl ether	ND	250		µg/Kg-dry	1	9/24/01 2:31:00 PM
Acetone	ND	250		µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1-Dichloroethene	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Carbon disulfide	ND	50		µg/Kg-dry	1	9/24/01 2:31:00 PM
Methylene chloride	ND	50		µg/Kg-dry	+	9/24/01 2:31:00 PM
Methyl tert-butyl ether	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
trans-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1-Dichloroethane	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Tertiary Butanol	ND	2,500		µg/Kg-dry	1	9/24/01 2:31:00 PM
2-Butanone	ND	250		µg/Kg-dry	1	9/24/01 2:31:00 PM
Diisopropyl ether	ND	50		µg/Kg-dry	1	9/24/01 2:31:00 PM
2,2-Dichloropropane	ND	25		µg/Kg-dry	4	9/24/01 2:31:00 PM
cis-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Ethyl Tertiary Butyl Ether	ND	50		µg/Kg-dry	1	9/24/01 2:31:00 PM
Chloroform	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Tetrahydrofuran	ND	250		µg/Kg-dry	1	9/24/01 2:31:00 PM
Bromochloromethane	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1,1-Trichloroethane	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1-Dichloropropene	ND	25	0	µg/Kg-dry	1	9/24/01 2:31:00 PM
Carbon tetrachloride	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
1,2-Dichloroethane	ND	25		µg/Kg-dry	T	9/24/01 2:31:00 PM
Benzene	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Trichloroethene	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
1,2-Dichloropropane	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Bromodichloromethane	ND	25		µg/Kg-dry	1	9/24/01 2:31:00 PM
Dibromomethane	ND	25	i	µg/Kg-dry	1	9/24/01 2:31:00 PM
Tertiary Amyl Methyl Ether	ND	50	1	µg/Kg-dry	1	9/24/01 2:31:00 PM
4-Methyl-2-pentanone	ND	250	1	µg/Kg-dry	1	9/24/01 2:31:00 PM
cis-1,3-Dichloropropene	ND	25	i	µg/Kg-dry	1	9/24/01 2:31:00 PM
Toluene	ND	25	i	µg/Kg-dry	1	9/24/01 2:31:00 PM
trans-1,3-Dichloropropene	ND	25	i	µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1,2-Trichloroethane	ND	25	i	µg/Kg-dry	1	9/24/01 2:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-02A

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
2-Hexanone	ND	250	µg/Kg-dry	1	9/24/01 2:31:00 PM
1,3-Dichloropropane	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
Tetrachloroethene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
Dibromochloromethane	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
Chlorobenzene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1,1,2-Tetrachloroethane	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
Ethylbenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
m,p-Xylene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
o-Xylene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
Styrene	ND	25	μg/Kg-dry	4	9/24/01 2:31:00 PM
Bromoform	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
Isopropylbenzene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
1,1.2.2-Tetrachloroethane	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
1,2,3-Trichloropropane	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
Bromobenzene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
n-Propylbenzene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
2-Chlorotoluene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
4-Chlorotoluene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
1,3,5-Trimethylbenzene	ND	25	μg/Kg-dry	7	9/24/01 2:31:00 PM
tert-Butylbenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
1.2.4-Trimethylbenzene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
sec-Butylbenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
4-Isopropyltoluene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
1,3-Dichlorobenzene	ND	25	µg/Kg-dry	4	9/24/01 2:31:00 PM
1.4-Dichlorobenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
n-Butylbenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
1.2-Dichlorobenzene	ND	25	µg/Kg-dry	1	9/24/01 2:31:00 PM
1.2-Dibromo-3-chloropropane	ND	50	μg/Kg-dry	1	9/24/01 2:31:00 PM
1,2,4-Trichlorobenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
Hexachlorobutadiene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM
Naphthalene	ND	50	μg/Kg-dry	1	9/24/01 2:31:00 PM
1,2,3-Trichlorobenzene	ND	25	μg/Kg-dry	1	9/24/01 2:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

5 - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Lab ID: 0109127-03A

Result RL Qual Units DF Analyses Date Analyzed VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B Analyst: SK µg/Kg-dry Dichlorodifluoromethane ND 56 1 9/25/01 2:18:00 PM ND 56 1 Chloromethane µg/Kg-dry 9/25/01 2:18:00 PM ND 28 9/25/01 2:18:00 PM Vinyl chloride µg/Kg-dry 1 ND 56 Chloroethane µg/Kg-dry 1 9/25/01 2:18:00 PM ND 56 Bromomethane µg/Kg-dry 4 9/25/01 2:18:00 PM Trichlorofluoromethane ND 56 µg/Kg-dry 1 9/25/01 2:18:00 PM ND Diethyl ether 280 µg/Kg-dry 1 9/25/01 2:18:00 PM ND 280 Acetone µg/Kg-dry 1 9/25/01 2:18:00 PM 1,1-Dichloroethene ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM ND Carbon disulfide 56 µg/Kg-dry 1 9/25/01 2:18:00 PM ND 56 Methylene chloride µg/Kg-dry 4 9/25/01 2:18:00 PM ND 28 Methyl tert-butyl ether µg/Kg-dry 1 9/25/01 2:18:00 PM trans-1,2-Dichloroethene ND 28 1 µg/Kg-dry 9/25/01 2:18:00 PM ND 1,1-Dichloroethane 28 µg/Kg-dry 9/25/01 2:18:00 PM Tertiary Butanol ND 2,800 µg/Kg-dry 1 9/25/01 2 18:00 PM 2-Butanone ND 280 µg/Kg-dry 1 9/25/01 2:18:00 PM ND 56 Diisopropyl ether µg/Kg-dry 9/25/01 2:18:00 PM 2,2-Dichloropropane ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM ND cis-1,2-Dichloroethene 28 µg/Kg-dry 9/25/01 2:18:00 PM Ethyl Tertiary Butyl Ether ND 56 µg/Kg-dry 1 9/25/01 2:18:00 PM ND Chloroform 28 µg/Kg-dry 9/25/01 2:18:00 PM ND 280 Tetrahydrofuran µg/Kg-dry 1 9/25/01 2:18:00 PM Bromochloromethane ND 28 µg/Kg-dry t 9/25/01 2:18:00 PM 1,1,1-Trichloroethane ND 28 µg/Kg-dry 9/25/01 2:18:00 PM 1,1-Dichloropropene ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM ND Carbon tetrachloride 28 µg/Kg-dry 9/25/01 2:18:00 PM 1,2-Dichloroethane ND 28 µg/Kg-dry 9/25/01 2:18:00 PM Benzene ND 28 µg/Kg-dry T I 9/25/01 2:18:00 PM ND Trichloroethene 28 µg/Kg-dry 3 9/25/01 2:18:00 PM ND 1,2-Dichloropropane 28 µg/Kg-dry 1 9/25/01 2:18:00 PM Bromodichloromethane ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM Dibromomethane ND 28 µg/Kg-dry 9/25/01 2:18:00 PM Tertiary Amyl Methyl Ether ND 56 µg/Kg-dry 1 9/25/01 2:18:00 PM ND 280 4-Methyl-2-pentanone µg/Kg-dry 9/25/01 2:18:00 PM cis-1,3-Dichloropropene ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM Toluene ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM trans-1,3-Dichloropropene ND 28 µg/Kg-dry 1 9/25/01 2:18:00 PM 1,1,2-Trichloroethane ND 28 9/25/01 2:18:00 PM µg/Kg-dry 4

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Lab ID:

0109127-03A

Analyses	Result	RL	Qual Units	DF	Date Analyzed	
1,2-Dibromoethane	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
2-Hexanone	ND	280	μg/Kg-dry	1	9/25/01 2:18:00 PM	
1,3-Dichloropropane	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Tetrachloroethene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Dibromochloromethane	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Chlorobenzene	ND	28	μg/Kg-dry	4	9/25/01 2:18:00 PM	
1,1,1,2-Tetrachloroethane	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Ethylbenzene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
m,p-Xylene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
o-Xylene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Styrene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Bromoform	ND	28	µg/Kg-dry	1	9/25/01 2:18:00 PM	
Isopropylbenzene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
1.1,2.2-Tetrachloroethane	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
1.2.3-Trichloropropane	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
Bromobenzene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
n-Propylbenzene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
2-Chlorotoluene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
4-Chlorotoluene	ND	28	µg/Kg-dry	1	9/25/01 2:18:00 PM	
1.3,5-Trimethylbenzene	ND	28	µg/Kg-dry	1	9/25/01 2:18:00 PM	
tert-Butylbenzene	ND	28	µg/Kg-dry	4	9/25/01 2:18:00 PM	
1.2.4-Trimethylbenzene	ND	28	µg/Kg-dry	7	9/25/01 2:18:00 PM	
sec-Butylbenzene	ND	28	µg/Kg-dry	1	9/25/01 2:18:00 PM	
4-Isopropyltoluene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
1,3-Dichlorobenzene	ND	28	µg/Kg-dŋ	4	9/25/01 2:18:00 PM	
1 4-Dichlorobenzene	ND	28	μg/Kg-dry	1	9/25/01 2:18:00 PM	
n-Butylbenzene	ND	28	µg/Kg-dŋ	1	9/25/01 2:18:00 PM	
1,2-Dichlorobenzene	ND	28	µg/Kg-dŋ		9/25/01 2:18:00 PM	
1,2-Dibromo-3-chloropropane	ND	56	μg/Kg-dry	1	9/25/01 2:18:00 PM	
1,2,4-Trichlorobenzene	ND.	28	μg/Kg-dŋ	1 1	9/25/01 2:18:00 PM	
Hexachlorobutadiene	ND	28	µg/Kg-dŋ	1	9/25/01 2:18:00 PM	
Naphthalene	ND	56	μg/Kg-dŋ	1	9/25/01 2:18:00 PM	
1.2.3-Trichlorobenzene	ND	28	µg/Kg-dŋ	1	9/25/01 2:18:00 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

E - See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

068511000 Devens Landfill

Collection Date: 9/18/01

Project: Lab ID:

0109127-04A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 503	MEDIUM-LEVE	SW8260B				Analyst: Sk
Dichlorodifluoromethane	ND	56		µg/Kg-dry	1	9/24/01 3:44:00 PM
Chloromethane	ND	56		µg/Kg-dry	4	9/24/01 3:44:00 PM
Vinyl chloride	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Chloroethane	ND	56		µg/Kg-dry	4	9/24/01 3:44:00 PM
Bromomethane	ND	56		µg/Kg-dry	1	9/24/01 3:44:00 PM
Trichlorofluoromethane	ND	.56		µg/Kg-dry	4	9/24/01 3:44:00 PM
Diethyl ether	ND	280		µg/Kg-dry	1	9/24/01 3:44:00 PM
Acetone	ND	280		μg/Kg-dry	1	9/24/01 3:44:00 PM
1,1-Dichloroethene	ND	28		µg/Kg-dry	4	9/24/01 3:44:00 PM
Carbon disulfide	ND	56		µg/Kg-dry	1	9/24/01 3:44:00 PM
Methylene chloride	ND	56		µg/Kg-dry	1	9/24/01 3:44:00 PM
Methyl tert-butyl ether	ND	28		µg/Kg-dry	7	9/24/01 3:44:00 PM
trans-1,2-Dichloroethene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
1,1-Dichloroethane	ND	28		µg/Kg-dry	9	9/24/01 3:44.00 PM
Tertiary Butanol	ND	2,800		µg/Kg-dry	3	9/24/01 3:44:00 PM
2-Butanone	ND	280		µg/Kg-dry	1	9/24/01 3:44:00 PM
Diisopropyl ether	ND	56		μg/Kg-dry	A	9/24/01 3:44:00 PM
2,2-Dichloropropane	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
cis-1.2-Dichloroethene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Ethyl Tertiary Butyl Ether	ND	56		μg/Kg-dry	1	9/24/01 3:44:00 PM
Chloroform	ND	28		µg/Kg-dry	Ť	9/24/01 3:44:00 PM
Tetrahydrofuran	ND	280		μg/Kg-dry	1	9/24/01 3:44:00 PM
Bromochloromethane	ND	28		µg/Kg-dry	9	9/24/01 3:44:00 PM
1,1,1-Trichloroethane	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
1,1-Dichloropropene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Carbon tetrachloride	ND	28	8	µg/Kg-dry	r	9/24/01 3:44:00 PM
1,2-Dichloroethane	ND	28	k.	μg/Kg-dry	1	9/24/01 3:44:00 PM
Benzene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
Trichloroethene	ND	28	i.	µg/Kg-dry	1	9/24/01 3:44:00 PM
1,2-Dichloropropane	ND	28	k	μg/Kg-dry	t	9/24/01 3:44:00 PM
Bromodichloromethane	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Dibromomethane	ND	28	1.	µg/Kg-dry	1:-	9/24/01 3:44:00 PM
Tertiary Amyl Methyl Ether	ND	56	i	µg/Kg-dry	1	9/24/01 3 44:00 PM
4-Methyl-2-pentanone	ND	280):	µg/Kg-dry	4	9/24/01 3,44:00 PM
cis-1,3-Dichloropropene	ND	28	3	µg/Kg-dry	1	9/24/01 3:44:00 PM
Toluene	ND	28	3	μg/Kg-dry	4	9/24/01 3 44 00 PM
trans-1,3-Dichloropropene	ND	28	3.	μg/Kg-dry	1	9/24/01 3:44:00 PM
1,1,2-Trichloroethane	ND	28	3	µg/Kg-dry	10	9/24/01 3:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT: Lab Order: Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Lab ID:

0109127-04A

0109127

Client Sample ID: DLRP-SP-199

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
2-Hexanone	ND	280		µg/Kg-dry	1	9/24/01 3:44:00 PM
1,3-Dichloropropane	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Tetrachloroethene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Dibromochloromethane	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
Chlorobenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
1,1,1,2-Tetrachloroethane	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Ethylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
m,p-Xylene	ND	28		µg/Kg-dry	4	9/24/01 3:44:00 PM
o-Xylene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Styrene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
Bromoform	ND	28		µg/Kg-dry	4	9/24/01 3:44:00 PM
Isopropylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
1.1.2.2-Tetrachloroethane	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
1.2,3-Trichloropropane	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
Bromobenzene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
n-Propylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
2-Chlorotoluene	ND	28		µg/Kg-dry	t	9/24/01 3:44:00 PM
4-Chlorotoluene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
1.3,5-Trimethylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
tert-Butylbenzene	ND	28		μg/Kg-dry	4	9/24/01 3:44:00 PM
1,2.4-Trimethylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
sec-Butylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
4-isopropyltoluene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
1,3-Dichlorobenzene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
1.4-Dichlorobenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
n-Butylbenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
1.2-Dichlorobenzene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
1,2-Dibromo-3-chloropropane	ND	56		µg/Kg-dry	1	9/24/01 3:44:00 PM
1,2,4-Trichlorobenzene	ND	28		μg/Kg-dry	1	9/24/01 3:44:00 PM
Hexachlorobutadiene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM
Naphthalene	ND	56		μg/Kg-dry	1.	9/24/01 3:44:00 PM
1,2,3-Trichlorobenzene	ND	28		µg/Kg-dry	1	9/24/01 3:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

0109127-05A

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual U	Inits	DF	Date Analyzed
OLATILES BY GC/MS, EPA 5035	MEDIUM-LEVE	SW8260B				Analyst: SI
Dichlorodifluoromethane	ND	48	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Chloromethane	ND	48	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Vinyl chloride	ND	24	p _i	g/Kg-dry	1	9/24/01 4:21:00 PM
Chloroethane	ND	48	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Bromomethane	ND	48	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Trichlorofluoromethane	ND	48	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Diethyl ether	ND	240	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Acetone	ND	240	þ	g/Kg-dry	1	9/24/01 4:21:00 PM
1,1-Dichloroethene	ND	24	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Carbon disulfide	ND	48	μ	g/Kg-dry	1	9/24/01 4:21:00 PM
Methylene chloride	ND	48		g/Kg-dry	1	9/24/01 4:21:00 PM
Methyl tert-butyl ether	ND	24		ig/Kg-dry	1	9/24/01 4:21:00 PM
trans-1,2-Dichloroethene	ND	24	μ	ig/Kg-dry	1	9/24/01 4:21:00 PM
1,1-Dichloroethane	ND	24		ig/Kg-dry	1	9/24/01 4:21:00 PM
Tertiary Butanol	ND	2,400		ıg/Kg-dry	1	9/24/01 4:21:00 PM
2-Butanone	ND	240	μ	ig/Kg-dry	1	9/24/01 4:21:00 PM
Diisopropyl ether	ND	48	μ	ig/Kg-dry	1	9/24/01 4:21:00 PM
2,2-Dichloropropane	ND	24	μ	ig/Kg-dry	1	9/24/01 4:21:00 PM
cis-1,2-Dichloroethene	ND	24	μ	ig/Kg-dry	1	9/24/01 4:21:00 PM
Ethyl Tertiary Butyl Ether	ND	48	μ	ig/Kg-dry	1	9/24/01 4:21:00 PM
Chloroform	ND	24	- p	ıg/Kg-dry	1	9/24/01 4:21:00 PM
Tetrahydrofuran	ND	240	P	ig/Kg-dry	1	9/24/01 4:21:00 PM
Bromochloromethane	ND	24	Ú	ıg/Kg-dry	1	9/24/01 4:21:00 PM
1,1,1-Trichloroethane	ND	24	į.	ig/Kg-dry	1	9/24/01 4:21:00 PM
1,1-Dichloropropene	ND	24	μ	ug/Kg-dry	1	9/24/01 4:21:00 PM
Carbon tetrachloride	ND	24	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
1,2-Dichloroethane	ND	24	į.	ug/Kg-dry	1	9/24/01 4:21:00 PM
Benzene	ND	24	į.	ıg/Kg-dry	1	9/24/01 4:21:00 PM
Trichloroethene	ND	24	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
1,2-Dichloropropane	ND	24	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
Bromodichloromethane	ND	24	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
Dibromomethane	ND	24	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
Tertiary Amyl Methyl Ether	ND	48		ug/Kg-dry	1	9/24/01 4:21:00 PM
4-Methyl-2-pentanone	ND	240	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
cis-1,3-Dichloropropene	ND	24	1	ug/Kg-dry	1	9/24/01 4:21:00 PM
Toluene	ND	24		ug/Kg-dry	1	9/24/01 4:21:00 PM
trans-1,3-Dichloropropene	ND	24		ug/Kg-dry	1	9/24/01 4:21:00 PM
1,1,2-Trichloroethane	ND	24		ug/Kg-dry	1	9/24/01 4:21:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Lab ID:

0109127-05A

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
2-Hexanone	ND	240	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,3-Dichloropropane	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Tetrachloroethene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Dibromochloromethane	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
Chlorobenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,1,1,2-Tetrachloroethane	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Ethylbenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
m,p-Xylene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
o-Xylene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Styrene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Bromoform	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Isopropylbenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,1,2,2-Tetrachloroethane	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,2,3-Trichloropropane	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Bromobenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
n-Propylbenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
2-Chlorotoluene	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
4-Chlorotoluene	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
1.3,5-Trimethylbenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
tert-Butylbenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,2.4-Trimethylbenzene	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
sec-Butylbenzene	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
4-Isopropyltoluene	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
1.3-Dichlorobenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,4-Dichlorobenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
n-Butylbenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,2-Dichlorobenzene	ND	24	μg/Kg-dry	1	9/24/01 4:21:00 PM
1.2-Dibromo-3-chloropropane	ND	48	μg/Kg-dry	1	9/24/01 4:21:00 PM
1,2,4-Trichlorobenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Hexachlorobutadiene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM
Naphthalene	ND	48	µg/Kg-dry	1	9/24/01 4:21:00 PM
1,2,3-Trichlorobenzene	ND	24	µg/Kg-dry	1	9/24/01 4:21:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-06A

Client Sample ID: TRIP BLANK

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
OLATILES BY GC/MS, EPA 503	MEDIUM-LEVE	SW8260B				Analyst: Sh
Dichlorodifluoromethane	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Chloromethane	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Vinyl chloride	ND	25	- 1	µg/Kg	1	9/24/01 1:18:00 PM
Chloroethane	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Bromomethane	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Trichlorofluoromethane	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Diethyl ether	ND	250		µg/Kg	1	9/24/01 1:18:00 PM
Acetone	ND	250		µg/Kg	9	9/24/01 1:18:00 PM
1,1-Dichloroethene	ND	25		µg/Kg	1	9/24/01 1:18:00 PM
Carbon disulfide	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Methylene chloride	ND	50		µg/Кg	1	9/24/01 1:18:00 PM
Methyl tert-butyl ether	ND	25	1	µg/Kg	1	9/24/01 1:18:00 PM
trans-1,2-Dichloroethene	ND	25		µg/Kg	1	9/24/01 1:18:00 PM
1,1-Dichloroethane	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Tertiary Butanol	ND	2,500		µg/Kg	1	9/24/01 1:18:00 PM
2-Butanone	ND	250		µg/Kg	1	9/24/01 1:18:00 PM
Diisopropyl ether	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
2,2-Dichloropropane	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
cis-1,2-Dichloroethene	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Ethyl Tertiary Butyl Ether	ND	50		µg/Kg	1	9/24/01 1:18:00 PM
Chloroform	ND	25		µg/Kg	1	9/24/01 1:18:00 PM
Tetrahydrofuran	ND	250		µg/Kg	1	9/24/01 1:18:00 PM
Bromochloromethane	ND	25		µg/Kg	1	9/24/01 1:18:00 PM
1,1,1-Trichloroethane	ND	25		µg/Кg	1	9/24/01 1:18:00 PM
1,1-Dichloropropene	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Carbon tetrachloride	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
1,2-Dichloroethane	ND	25		µg/Kg	1	9/24/01 1:18:00 PM
Benzene	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Trichloroethene	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
1,2-Dichloropropane	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Bromodichloromethane	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Dibromomethane	ND	25		μg/Kg	1	9/24/01 1:18:00 PM
Tertiary Amyl Methyl Ether	ND	50	i.	µg/Kg	1	9/24/01 1:18:00 PM
4-Methyl-2-pentanone	ND	250)	μg/Kg	1	9/24/01 1:18:00 PM
cis-1,3-Dichloropropene	ND	25	i	μg/Kg	1	9/24/01 1:18:00 PM
Toluene	ND	25	i	µg/Kg	1	9/24/01 1:18:00 PM
trans-1,3-Dichloropropene	ND	25	5	μg/Kg	1	9/24/01 1:18:00 PM
1,1,2-Trichloroethane	ND	25	5	µg/Kg	1	9/24/01 1:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: TRIP BLANK

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-06A

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
2-Hexanone	ND	250	µg/Kg	1	9/24/01 1:18:00 PM
1,3-Dichloropropane	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Tetrachloroethene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Dibromochloromethane	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Chlorobenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
1,1,1,2-Tetrachloroethane	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Ethylbenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
m,p-Xylene	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
o-Xylene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Styrene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Bromoform	ND	25	µg/Кg	1	9/24/01 1:18:00 PM
Isopropylbenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
1,1,2,2-Tetrachloroethane	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
1,2.3-Trichloropropane	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Bromobenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
n-Propylbenzene	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
2-Chlorotoiuene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
4-Chlorotoluene	ND	25	μg/Kg	7	9/24/01 1:18:00 PM
1.3.5-Trimethylbenzene	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
tert-Butylbenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
1.2.4-Trimethylbenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
sec-Butylbenzene	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
4-Isopropyltoluene	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
1,3-Dichlorobenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
1.4-Dichlorobenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
n-Butylbenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
1,2-Dichlorobenzene	ND	25	μg/Kg	1	9/24/01 1:18:00 PM
1.2-Dibromo-3-chloropropane	ND	50	µg/Kg	1	9/24/01 1:18:00 PM
1,2,4-Trichlorobenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Hexachlorobutadiene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM
Naphthalene	ND	50	μg/Kg	1	9/24/01 1:18:00 PM
1.2,3-Trichlorobenzene	ND	25	µg/Kg	1	9/24/01 1:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-01A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS (MODIFIED 8260B S						Analyst: SK
Gasoline Range Organics	ND	2.2		mg/Kg-dry	1	9/20/01 4:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

	LL OF LADING (pursuant to 310 CM)	T. /S. #	Release Tracking Number
	MMARY SHEET OF_	4	D-NA
Load 1: June Date of Shipment 1-8-03 Truck/Tractor Registration 68932	ON:— Signatiure of Transporter Representative: Surface of Shipment; 7.50 AM PM Trailer Registration (if any): 69795 MA e of Transporter Representative: Time of Shipment: 1.30 AM AM	Receiving Facility/Temporary Storage Report Processing Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Storage Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Facility/Temporary Fac	Receipt: 1.34 DAM PM 38 Presentative: PYCC M Receipt: AM PM
	of Transporter Representative: Time of Shipment AM PM	Receiving Facility/Temporary Storage Reprint Date of Receipt: Time of R	esentative:
Load 4: Signatiure Date of Shipment Truck/Tractor Registration;	of Transporter Representative: Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Repression Date of Receipt: Time of Receipt: Load Size (cu. yds./tons):	
.oad 5; Signatiure	of Transporter Representative:	Receiving Facility/Temporary Storage Repr	esentative:
Date of Shipment Truck/Tractor Regis tra tion:	Time of Shipmant: AM PM Trailer Registration (if any):	Date of Receipt: Time of Re Load Size (cu. yds./tons):	ceipt: AM PM
oad 6: Signatiure ate of Shipment ruck/Tractor Registration:	of Transporter Representative: Time of Shipment: AM PM Trailer Registration (if any):	Receiving Facility/Temporary Storage Repr Date of Receipt: Time of Re- Load Size (cu. yds./tons);	

Revised 10/3/94

Page 1 of 1

D E P

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

DIL	OF	LADILLO		240	CHAD	40.00	20	N
BILL	UF	LADING	(bursuant to	370	CMK	40.00	30	1
				200			100	•
			(pursuant to			1		

Release Tracking Number

DEP SUMMARY SHEET _3_ OF_	4 D-NA
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment Time of Shipment: 2.3.5 I Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: BROCKTON LIMBPILL ML Date of Receipt: Time of Receipt: O1/CP/03
Load 2: Signatiure of Transporter Representative: Date of Shipment - \frac{7}{2} - \frac{3}{3} Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Brackton Law of the Company Storage Representative: Date of Receipt: Time of Receipt: O1/08/03 382 AM AM AM AM AM AM AM A
# 2159	Load Size (cu. yds./tons): 33.2/
Load 3: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment: AM PM	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any):	AM PM Load Size (cu. yds./tons):
Load 4: Signatiure of Transporter Representative:	t Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
	Load Size (cu. yds./tons):
Load 5: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
Fruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Total Carried Forward	ard (cu. yds (cu. yds /tons) 60.97 ard (cu. yds (cns)) 133-43 ard and This Page (cu. yds /tons): 23.30

Massachusetts Department of E Bureau of Waste Site Cleanup	nvironmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 CM	R 40,0030) Release Tracking Number
DEP SUMMARY SHEET 4 OF_	4 L-NA
I. LOAD INFORMATION: Signatiure of Transporter Representative: Load 1: Date of Shipmant: Time of Shipmant: 7.30 [XAM] PM Truck/Tractor Registration: Trailer Registration (if any):	BROCKING LINEARCE (M.) Date of Receipt: 11/08/03 10:27 DAM PM
30569 69798	Load Size (cu. yds./lons): #27.70
Load 2: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Fransporter Representative: Signatiure of Shipment: Signa	Receiving Facility/Tamporary Storage Representative; Date of Receipt: Time of Receipt: DIOSIOS 3.00 AM PM Load Size (cu. yds./tons): 32.71
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (If any):	Date of Receipt: Time of Receipt: AM PM
Trace () book () control () and ()	Load Size (cu. yds./lons):
Load 4: Signature of Transporter Representative:	t Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./ions);
Load 5: Signatiure of Transporter Représentative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	I I Load Size (cu, yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Tamporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration (if any):	Load Size (cu. yds./tons):
Total Carried Forw	orded This Page (cu. yds./fons) (00.4/1 rard (cu. yds./fons): 183-39 rard and This Page (cu. yds./fons): 243-80

Revised 10/3/94

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

BILL	OF	LADING	(pursuant to	310	CMR	40.0030)	ĺ
-,,-	7.		Among a desired				

DEP SUMMARY SHEET OF_	R 40.0030) Release Tracking Number - NA
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment /- 9-03 Time of Shipment: 7:00 MAM PM Truck/Tractor Registration: Trailer Registration (if any): 20250 62915	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: Gold Size (cu. yds./tons): 30,89
Load 2: Signature of Transporter Representative: Date of Shipment: /- 9-03 Time of Shipment: /2 35 AM PM Truck/Tractor Registration: Trailer Registration (If any): 20250 62915	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons): 3/57
Load 3: Signature of Transporter Representative: Date of Shipmant Time of Shipmant AM PM Truck/Tractor Registration: Trailer Registration (If any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons);
Load 4: Signatiure of Transporter Representative: Date of Shipment Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
Load 5: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds,/tons):
Load 6: Signature of Transporter Representative: Date of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu, yds./tons);
Total Carried Forw	brided This Page (cu. yds flons) Fard (cu. yds flons): Fard and This Page (cu. yds flons): Fard and This Page (cu. yds flons):

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Page 1 of 1

BWSC-012B Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup Release Tracking Number BILL OF LADING (pursuant to 310 CMR 40.0030) SUMMARY SHEET, Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: BRUKEN CAMPINE Load 1: Date of Shipment of Shipment: 1.9.2003 AM PM Truck/Tractor Registration: Trailer Registration (if any): 29350/MA 10347 MA. Load Size (cu. yds./tons): Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment Date of Receipt: AM PM 1.9.2002 1-9-03 Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds. Aons): Signatiure of Transporter Representative: Load 3: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: AM PM Time of Receipt: AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./lons): Signatiure of Transporter Representative: Load 4: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Time of Receipt: Date of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./lons): Load 5: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment: Time of Shipment; Date of Receipt: Time of Receipt: AM PM AM PM Truck/Tractor Registration: Trailer Registration (if any): Load Size (cu. yds./tons): Load 6: Signatiure of Transporter Representative: Receiving Facility/Temporary Storage Representative: Date of Shipment Time of Shipment: Date of Receipt: Time of Receipt: AM PM AM PM

Trailer Registration (if any):

Load Size (cu. yds./tons):

60.01

Total Carried Forward (cu. yds./lons): Total Carried Forward and This Page (cu. yds/flons):

122.47

Truck/Tractor Registration:

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

BILL	OF	LADING	(pursuant to	310	CMR	40.0030)
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ILL OF LADING	(pursuant to 31	O CMF	R 40.0030)	
UMMARY SHEET	_3_	OF_	10	_

Release Tracking Number

Facility/Temporary Storage Representative: Council
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(cu. yds./tons): Facility/Temporary Storage Representative: Cocition and part Eceipt: Time of Receipt: AM PM (cu. yds./tons): 3 6 3 Facility/Temporary Storage Representative: Compared to the part Compared to the p
(cu. yds./tons): 36.6 Facility/Temporary Storage Representative:
Facility/Temporary Storage Representative: COULTON LANSTACK Coulton Language Representative: Coulton Language Re
POCILITAN LANSPACE eceipt: Time of Receipt: AM PM (cu. yds./tons):#3263 Facility/Temporary Storage Representative: ecipt: Time of Receipt: AM PM
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Facility/Temporary Storage Representative:
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Release Tracking Number	Release	Tracking	Number
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BILL	. OF LADING (pursuant to 310 CM	R 40.0030)	Release	e Tracking Number
DEP SUM	MARY SHEET OF_			NA
I. LOAD INFORMATION Load 1: There Date of Shipment 1-9-02 Truck/Tractor Registration: 4893.2	Time of Shipment: 6:35 DAM PM Trailer Registration (if any):	11110	Time of Receipt:	EM DAM DAM
	69755 MA	Load Size (cu. yds./lons):	32.00	
Date of Shipment 1-9-02 Truck/Tractor Registration: 48532	Transporter Representative: Subsectible Time of Shipmani: 11.*4.5 AM DPM Trailer Registration (If any): 6 8 755 1114	Date of Receipt Load Size (cu. yds./tons):	y Slorage Representative ICTAN CLOMS Time of Receipt: 2:18 35.29	
Load 3: Signatiure of	Transporter Representative:	Receiving Facility/Temporary	Storage Representative:	
Date of Shipment	Time of Shipment AM PM	Date of Receipt	Time of Receipt:	AM PM
Truck/Tractor Registration:	Trailer Registration (If any):	Load Size (cu. yds./lons):		
Load 4: Signatiure of	Transporter Representative:	Receiving Facility/Temporary	Slorage Representative:	
Date of Shipment Truck/Tractor Registration:	Time of Shipment: AM PM Trailer Registration (if any):	Date of Receipt:	Time of Receipt:	AM PM
	,, and , , , , , , , , , , , , , , , , , , ,	Load Size (cu. yds./tons);		
Load 5: Signatiure of	Transporter Representative:	Receiving Facility/Temporary	Storage Representative;	
Date of Shipment	Time of Shipment:	Date of Receipt:	Time of Receipt:	AM PM
Truck/Tractor Registration:	Trailer Registration (If any):	I Load Size (cu. yds./lons):		
Load 6: Signatiure of	Transporter Representative:	Receiving Facility/Temporary	Storage Representative:	
Date of Shipment	Time of Shipment	I Date of Receipt: 	Time of Receipt	☐ AM ☐ PM
Truck/Tractor Registration:	Trailer Registration (if any):	l Load Size (cu. yds./tons);		
LOG SHEET VOLUME		orded This Page (cu. yds/lons)	67.29	

Total Carried Forward and This Page (cu. yets./tons);)

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

Release Tracking Number

DEP SUMMARY SHEET	of 10 - NA
Truck/Tractor Registration: Trailer Registration (if any):	PM 1/9/10 9:39 DAM PM
50569 69798 Load 2: Signature of transporter Representative:	Load Size (cu. yds./lons): 30.49
Date of Shipment: 1-9-03 Truck/Tractor Registration: Trailer Registration (If any): 50569 Contact Trailer Registration (If any):	Receiving Facility/Temporary Storage Representative; BRUCKTW AMDRIV M Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons): 3/6/
Load 3: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Truck/Tractor Registration: Trailer Registration (if any):	PM Date of Receipt: Time of Receipt; AM PM
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Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
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Truck/Tractor Registration: Trailer Registration (if any):	t Load Size (cu, yds./tons):
Load 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM P	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds,/tons):
Total Carried	Recorded This Page (cu, yds./lons) 62.10 Forward (cu. yds./lons): 359.00 Forward and This Page (cu yds./lons): 321-10

Revised 10/3/94

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Massachusetts Department of En Bureau of Waste Site Cleanup	nvironmental Protection BWSC-012	2B
BILL OF LADING (pursuant to 310 CM) DEP SUMMARY SHEETO OF	R 40.0030) Release Tracking Numb	ber
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Chy S Date of Shipment Time of Shipment: Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM Load Size (cu. yds./tons):	N PM
Load 2: Signature of Tharisporter Representative: Date of Shipment: Time of Shipment: Truck/Tractor Registration: Trailer Registration (If any): 3 9 9 9 6 6 7 9 3	Receiving Facility/Temporary Storage Representative: Social Tem Construction: Date of Receipt: Time of Receipt: AM Load Size (cu. yds Aons); 33.80	<u>] PM</u>
Load 3: Signature of Transporter Representative: Date of Shipment Time of Shipment AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM Load Size (cu. yds./lons):	PM
Load 4: Signature of Transporter Representative: Date of Shipment Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt;	РМ
Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative;	
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM	РМ
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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BILL OF LADING	(pursuant to	310	CMR	40.0030)
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DEP SUMMARY SHEET OF_	
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment Time of Shipment: 1-09-03 Time of Shipment: PM	Receiving Facility/Temporary Storage Representative: BICKLIN LANDHUM Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any): A H 33169 MA 30021	Load Size (cu. yds./tons): 34-70
Load 2: Signature of Transporter Representative: Date of Shipment Time of Shipment:	Receiving Facility/Tamporary Storage Representative; BROCKTON LANDING Date of Receipt: Time of Receipt:
1-09-03 11:45 DAM □ PM Truck/Tractor Registration: Trailer Registration (If any):	1/9/02 1:49 DAM DEM
MA 433/69 MA 30021	Load Size (cu. yds./lons): 3/.65
Load 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (If any):	Load Size (cu. yds./tons);
Load 4: Signature of Transporter Representative:	Réceiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment.	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 5: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment:	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu, yds./tons):
Load 6: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment Time of Shipment	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds,/tons):
Total Carried Forw	orded This Page (cu. yes Jons) 65-75

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-012B

DEP SUMMARY SHEET 8 1/OF	1R 40.0030) Release Tracking Number
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any): 25076 33533	BROCKTON CANDON UM Date of Receipt: Time of Receipt:
Load 2: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment: O -05 - >3	Receiving Facility/Temporary Storage Representative: BROCK TOWN DIMENSION Date of Receipt Time of Receipt: AM Fri
Load 3: Signatiure of Transporter Representative: Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
Load 4: Signatiure of Transporter Representative: Date of Shipment Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./lons):
oad 5: Signatiure of Transporter Representative: late of Shipment: Time of Shipment: AM PM ruck/Tractor Registration: Trailer Registration (if any):	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM Load Size (cu. yds./tons):
oad 6: Signatiure of Transporter Representative: ate of Shipment Time of Shipment: AM PM to be supported by the second of the	Receiving Facility/Temporary Storage Representative: Date of Receipt: Time of Receipt: AM PM

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Bureau	ichusetts Department u of Waste Site Cleanu	P			BWSC-	
	F LADING (pursuant to 3		. ^	Releas	e Tracking	Number
DEP SUMMA	ARY SHEET	OF_	10		N	M
I. LOAD INFORMATION: Load 1: Date of Shipment	Signature of Transporter Representation	ntative:	Receiving Facility/Temporary		u i	M
Truck/Tractor Registration;	Time of Shipment: O. 30 NAM [Trailer Registration (if env)):] PM	Date of Receipt:	Time of Receipt	₽ AW	PM
40063 mg.	20715 MA	- 3	Load Size (cu. yds./tons):	31-89		
_	ansporter Representative:		Receiving Facility/Temporar		ne	
Date of Shipment:	Time of Shipment:	DPM !	Date of Regeipt:	Time of Receipt:	MA [₽M
Truck/Tractor Registration: 40063 MA	Trailer Registration (If any): $22715 MG,$		Load Size (cu. yds /tons):	3490	las all	
Load 3: Signatiure of Tra	insporter Representative:	1	Receiving Facility/Temporary	Storage Representative		
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Truck/Tractor Registration:	Trailer Registration (If any):	1	Load Size (cu. yds./tons):			
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		PM 1	Date of Receipt:	Time of Receipt:	☐ AM	□ РМ
Truck/Tractor Registration:	Trailer Registration (if any):	1	Load Size (cu. yds./lons):			
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Date of Shipment	Time of Shipment] PM [Date of Receipt:	Time of Receipt	□ AM	☐ PM
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Revised 10/3/94

Massachusetts Department of Environmental Protection

BWSC-012B

В	ILL OF LADING (pursuant to 310 CI UMMARY SHEETOF	MR 40.0030) + Ca	Relea	se Tracking Number
I. LOAD INFORMAT Load 1: Date of Shipment 1-9-03	ION: Signatiure of Transporter Representative 630 Time of Shipment:	Receiving Facility/Temporal	ry Storage Representative	PICC PM
Truck/Tractor Registratio	n: Trailer Registration (if any):	Load Size (cu. yds./tons):	32.23	<u> </u>
Load 2: Signation 1 - 9 - 9 3 Date of Shipment	re of Transporter Representative: Time of Shipment:	I no do so		The 12 ct
Truck/Tractor Registration		Load Size (cu. yds./tons):	7.41 32.2x	
Load 3; Signation	re of Transporter Representative:	Receiving Facility/Temporar		Ľ
Date of Shipment: Truck/Tractor Registration	Time of Shipment: AM PM Trailer Registration (if any):	Date of Receipt:	Time of Receipt:	AM PM
		Load Size (cu. yds./tons):		
Load 4: Signatiur	e of Transporter Representative;	Receiving Facility/Temporary	y Storage Representative:	
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	The registration (ii diff).	Load Size (cu. yds./tons):		
Load 5: Signatium	e of Transporter Representative:	Receiving Facility/Temporar	y Storage Representative	
Date of Shipment:	Time of Shipment:	Date of Receipt:	Time of Receipt:	AM PM
Truck/Tractor Registration	Trailer Registration (if any):	Load Size (cu. yds./tons):	6	
Load 6: Signatiure	e of Transporter Representative:	Receiving Facility/Temporar	y Storage Representative	,
Date of Shipment	Time of Shipment;	Date of Receipt:	Time of Receipt:	□ АМ □ РМ
ruck/Tractor Registration:	Trailer Registration (if any):	Load Size (cu. yds./lons):		
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Massachusetts Department of B Bureau of Waste Site Cleanup	Environmental Protection BWSC-012B
BILL OF LADING (pursuant to 310 CM DEP SUMMARY SHEET OF	
I. LOAD INFORMATION: Signature of Transporter Representative: Load 1: Date of Shipment: Time of Shipment:	Receiving Facility/Temporary Storage Representative: BW.
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trader Registration (if any):	Date of Receipt: Time of Receipt: 9:36 PAM PN
29390 ma. 1/0347.mg.	Load Size (cu. yds./(Sns): 29-91
Load 2: Signatiure of Transporter Representative: AC Date of Shipment Time of Shipment: AM PM	Receiving Facility/Temporary Storage Representative: BROCKTON LAWY A
Truck/Tractor Registration: Traffer Registration (If any): 29380 Nm /0377 mg	Load Size (cu. yds./tons):
Load 3: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 4: Signature of Transporter Representative:	 Receiving Facility/Temporary Storage Representative;
Dale of Shipment Time of Shipment	Date of Receipt: Time of Receipt: AM PM
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):
Load 5: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: AM PM	Date of Receipt: Time of Receipt: AM PM
ruck/Tractor Registration: Trailer Registration (if any);	Load Size (cu. yds./tons):
oad 6: Signatiure of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
late of Shipment Time of Shipment AM PM	Date of Receipt: Time of Receipt: AM PM
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Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

Project: 0685110

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-02A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS	(MODIFIED 8260B S	SW8260B				Analyst: SK

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-03A

Client Sample ID: DLRP-SP-198

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS	MODIFIED 8260B	SW8260B				Analyst: SK

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-04A

Client Sample ID: DLRP-SP-199

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS (MODIFIED 8260B SV	/8260B				Analyst: SK
Gasoline Range Organics	ND	2.8		mg/Kg-dry	1	9/20/01 6:32:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-05A

Client Sample ID: DLRP-SP-200

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS (MODIFIED 8260B SV	V8260B				Analyst: SK
Gasoline Range Organics	ND	2.4		mg/Kg-dry	1	9/20/01 7:05:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-01C

Client Sample ID: DLRP-SP-196

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	sv	V8270C				Analyst: KD
Pyridine	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
N-Nitrosodimethylamine	ND	510	1	µg/Kg-dry	1	9/21/01 7:01:00 PM
Phenol	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Bis(2-chloroethyl)ether	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
2-Chlorophenol	ND	250	1	µg/Kg-dry	1	9/21/01 7:01:00 PM
1,3-Dichlorobenzene	ND	250		µg/Kg-dry	1:	9/21/01 7:01:00 PM
1,4-Dichlorobenzene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Benzyl alcohol	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
2-Methylphenol	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
1,2-Dichlorobenzene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Bis(2-chloroisopropyl)ether	ND	250		µg/Kg-dry	1:	9/21/01 7:01:00 PM
4-Methylphenol	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
N-Nitrosodi-n-propylamine	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Hexachloroethane	ND	250		µg/Kg-dry	4	9/21/01 7:01:00 PM
Nitrobenzene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Isophorone	ND	250		μg/Kg-dry	3	9/21/01 7:01:00 PM
2,4-Dimethylphenol	ND	250		µg/Kg-dry	4	9/21/01 7:01:00 PM
Benzoic acid	ND	510		µg/Kg-dry	.7	9/21/01 7:01:00 PM
2-Nitrophenol	ND	250		µg/Kg-dry	7	9/21/01 7:01:00 PM
Bis(2-chloroethoxy)methane	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
2,4-Dichlorophenol	ND	250	4	µg/Kg-dry	4	9/21/01 7:01:00 PM
1,2,4-Trichlorobenzene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Naphthalene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
4-Chloroaniline	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Hexachlorobutadiene	ND:	250		µg/Kg-dry	9	9/21/01 7:01:00 PM
4-Chloro-3-methylphenol	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
2-Methylnaphthalene	ND.	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Hexachlorocyclopentadiene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
2,4,6-Trichlorophenal	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
2,4,5-Trichlorophenol	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
2-Chloronaphthalene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
2-Nitroaniline	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
Dimethyl phthalate	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
2,6-Dinitrotoluene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Acenaphthylene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
3-Nitroaniline	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
4-Nitrophenol	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
2,4-Dinitrophenol	ND	510		µg/Kg-dry	3	9/21/01 7:01:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT: Lab Order: Stone & Webster Construction Co.

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-01C

Client Sample ID: DLRP-SP-196

Collection Date: 9/18/01

Matrix: SOIL

nalyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	250	-	μg/Kg-dry	1	9/21/01 7:01:00 PM
2,4-Dinitrotoluene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Dibenzofuran	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Diethyl phthalate	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
4-Chlorophenyl phenyl ether	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Fluorene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
4-Nitroaniline	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
4,6-Dinitro-2-methylphenol	ND	510		μg/Kg-dry	1	9/21/01 7:01:00 PM
N-Nitrosodiphenylamine	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
4-Bromophenyl phenyl ether	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Hexachlorobenzene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Pentachlorophenol	ND	510		µg/Kg-dry	1	9/21/01 7:01:00 PM
Phenanthrene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Anthracene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Carbazole	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Di-n-butyl phthalate	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Fluoranthene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Benzidine	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Pyrene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Butyl benzyl phthalate	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Bis(2-ethylhexyl)phthalate	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
3,3'-Dichlorobenzidine	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Benz(a)anthracene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Chrysene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Di-n-octyl phthalate	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Benzo(b)fluoranthene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Benzo(k)fluoranthene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Benzo(a)pyrene	ND	250		µg/Kg-dry	1	9/21/01 7:01:00 PM
Dibenz(a,h)anthracene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Indeno(1,2,3-cd)pyrene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
Benzo(g,h,i)perylene	ND	250		μg/Kg-dry	1	9/21/01 7:01:00 PM
	*					

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

0109127-02C

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	sv	V8270C				Analyst: KD
Pyridine	ND	530		µg/Kg-dry	3	9/21/01 8:35:00 PM
N-Nitrosodimethylamine	ND	530		µg/Kg-dry	- 1	9/21/01 8:35:00 PM
Phenol	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Bis(2-chloroethyl)ether	ND	260		µg/Kg-dry		9/21/01 8:35:00 PM
2-Chlorophenol	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
1,3-Dichlorobenzene	ND	260		µg/Kg-dry	1.0	9/21/01 8:35:00 PM
1,4-Dichlorobenzene	ND	260		µg/Kg-dry	4	9/21/01 8:35:00 PM
Benzyl alcohol	ND	530		μg/Kg-dry	1	9/21/01 8:35:00 PM
2-Methylphenol	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
1,2-Dichlorobenzene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Bis(2-chloroisopropyl)ether	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
4-Methylphenol	ND	260		µg/Kg-dry	3	9/21/01 8:35:00 PM
N-Nitrosodi-n-propylamine	ND	260		µg/Kg-dry	4	9/21/01 8:35:00 PM
Hexachloroethane	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Nitrobenzene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Isophorone	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
2,4-Dimethylphenol	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Benzoic acid	ND	530		µg/Kg-dry	1	9/21/01 8:35:00 PM
2-Nitrophenol	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Bis(2-chloroethoxy)methane	ND	260		μg/Kg-dry	7	9/21/01 8:35:00 PM
2,4-Dichlorophenol	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
1,2,4-Trichlorobenzene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Naphthalene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
4-Chloroaniline	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Hexachlorobutadiene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
4-Chloro-3-methylphenol	ND	530		µg/Kg-dry	1	9/21/01 8:35:00 PM
2-Methylnaphthalene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Hexachlorocyclopentadiene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
2,4,6-Trichlorophenol	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
2,4,5-Trichlorophenol	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
2-Chloronaphthalene	ND	260		pg/Kg-dry	1	9/21/01 8:35:00 PM
2-Nitroaniline	ND	530		µg/Kg-dry	7	9/21/01 8:35:00 PM
Dimethyl phthalate	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
2,6-Dinitrotoluene	ND	260		µg/Kg-dry	1	9/21/01 B:35:00 PM
Acenaphthylene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
3-Nitroaniline	ND	530		µg/Kg-dry	1	9/21/01 8:35:00 PM
4-Nitrophenol	ND	530		µg/Kg-dry	1	9/21/01 8:35:00 PM
2,4-Dinitrophenol	ND	530		µg/Kg-dry	1	9/21/01 8:35:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

0109127-02C

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

nalyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
2,4-Dinitrotoluene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Dibenzofuran	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Diethyl phthalate	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
4-Chlorophenyl phenyl ether	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Fluorene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
4-Nitroaniline	ND	530		μg/Kg-dry	1	9/21/01 8:35:00 PM
4,6-Dinitro-2-methylphenol	ND	530		µg/Kg-dry	1	9/21/01 8:35:00 PM
N-Nitrosodiphenylamine	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
4-Bromophenyl phenyl ether	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Hexachlorobenzene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Pentachlorophenol	ND	530		μg/Kg-dry	1	9/21/01 8:35:00 PM
Phenanthrene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Anthracene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Carbazole	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Di-n-butyl phthalate	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Fluoranthene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Benzidine	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Pyrene	ND	'260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Butyl benzyl phthalate	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Bis(2-ethylhexyl)phthalate	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
3,3'-Dichlorobenzidine	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Benz(a)anthracene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Chrysene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Di-n-octyl phthalate	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Benzo(b)fluoranthene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Benzo(k)fluoranthene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Benzo(a)pyrene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM
Dibenz(a,h)anthracene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	260		μg/Kg-dry	1	9/21/01 8:35:00 PM
Benzo(g,h,i)perylene	ND	260		µg/Kg-dry	1	9/21/01 8:35:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-03C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual U	nits	DF	Date Analyzed
SEMIVOLATILE ORGANICS	sv	/8270C				Analyst: KD
Pyridine	ND	530	μg	/Kg-dry	1	9/21/01 9:06:00 PM
N-Nitrosodimethylamine	ND	530		/Kg-dry	1	9/21/01 9:06:00 PM
Phenol	ND	260	μg	/Kg-dry	1	9/21/01 9:06:00 PM
Bis(2-chloroethyl)ether	ND	260	μg	/Kg-dry	1	9/21/01 9:06:00 PM
2-Chlorophenol	ND	260	μg	/Kg-dry	1	9/21/01 9:06:00 PM
1,3-Dichlorobenzene	ND	260	μg	/Kg-dry	1	9/21/01 9:06:00 PM
1,4-Dichlorobenzene	ND	260	μg	/Kg-dry	1	9/21/01 9:06:00 PM
Benzyl alcohol	ND	530	μg	/Kg-dry	1	9/21/01 9:06:00 PM
2-Methylphenol	ND	260	pg	/Kg-dry	1	9/21/01 9:06:00 PM
1,2-Dichlorobenzene	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
Bis(2-chloroisopropyl)ether	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
4-Methylphenol	ND	260	μg	g/Kg-dry	1	9/21/01 9:06:00 PM
N-Nitrosodi-n-propylamine	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
Hexachloroethane	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
Nitrobenzene	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
Isophorone	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2,4-Dimethylphenol	ND	260	μg	g/Kg-dry	1	9/21/01 9:06:00 PM
Benzoic acid	ND	530	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2-Nitrophenol	ND	260	μg	g/Kg-dry	1	9/21/01 9:06:00 PM
Bis(2-chloroethoxy)methane	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2,4-Dichlorophenol	ND	260	pg.	g/Kg-dry	1	9/21/01 9:06:00 PM
1,2,4-Trichlorobenzene	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
Naphthalene	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
4-Chloroaniline	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
Hexachlorobutadiene	ND	260	p	g/Kg-dry	1	9/21/01 9:06:00 PM
4-Chloro-3-methylphenol	ND	530	p	g/Kg-dry	1	9/21/01 9:06:00 PM
2-Methylnaphthalene	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
Hexachlorocyclopentadiene	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2,4,6-Trichlorophenol	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2,4,5-Trichlorophenol	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2-Chloronaphthalene	ND	260	μ	g/Kg-dry	1	9/21/01 9:06:00 PM
2-Nitroaniline	ND	530		g/Kg-dry	1	9/21/01 9:06:00 PM
Dimethyl phthalate	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
2,6-Dinitrotoluene	ND	260		g/Kg-dry	1	9/21/01 9:06:00 PM
Acenaphthylene	320	260		g/Kg-dry	1	9/21/01 9:06:00 PM
3-Nitroaniline	ND	530		g/Kg-dry	1	9/21/01 9:06:00 PM
4-Nitrophenol	ND	530		g/Kg-dry	1	9/21/01 9:06:00 PM
2,4-Dinitrophenol	ND	530		g/Kg-dry	1	9/21/01 9:06:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-03C

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
Acenaphthene	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
2,4-Dinitrotoluene	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
Dibenzofuran	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
Diethyl phthalate	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
4-Chlorophenyl phenyl ether	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
Fluorene	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
4-Nitroaniline	ND	530	μg/Kg-dry	1	9/21/01 9:06:00 PM
4,6-Dinitro-2-methylphenol	ND	530	μg/Kg-dry	1	9/21/01 9:06:00 PM
N-Nitrosodiphenylamine	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
4-Bromophenyl phenyl ether	ND	260	µg/Kg-dry	4	9/21/01 9:06:00 PM
Hexachlorobenzene	ND	260	μg/Kg-ary	4	9/21/01 9:06:00 PM
Pentachlorophenol	ND	530	μg/Kg-dry	1	9/21/01 9:06:00 PM
Phenanthrene	940	260	ug/Kg-dry	1	9/21/01 9:06 00 PM
Anthracene	ND	260	μg/Kg-dry	14	9/21/01 9:06:00 PM
Carbazole	ND	260	µg/Kg-dry	1	9/21/01 9.06:00 PM
Di-n-butyl phthalate	ND	260	ug/Kg-ary	1	9/21/01 9:06:00 PM
Fluoranthene	2.200	260	μg/Kg-dry	4	9/21/01 9:06:00 PM
Benzidine	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
Pyrene	1.800	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Butyl benzyl phthalate	ND	260	µg/Kg-dry	1	9/21/01 9:06:00 PM
Bis(2-ethylhexyl)phthalate	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
3,3'-Dichlorobenzidine	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Benz(a)anthracene	910	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Chrysene	1,100	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Di-n-octyl phthalate	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Benzo(b)fluoranthene	1,500	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Benzo(k)fluoranthene	600	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Benzo(a)pyrene	980	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Dibenz(a,h)anthracene	ND	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Indeno(1,2,3-cd)pyrene	920	260	μg/Kg-dry	1	9/21/01 9:06:00 PM
Benzo(g,h,i)perylene	790	260	μg/Kg-dry	1	9/21/01 9:06:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-04C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Q	ial Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	SI	V8270C			Analyst: KD
Pyridine	ND	530	μg/Kg-dry	4	9/21/01 9:37:00 PM
N-Nitrosodimethylamine	ND	.530	µg/Kg-dry	1	9/21/01 9:37:00 PM
Phenol	ND	260	ug/Kg-dry	1	9/21/01 9:37:00 PM
Bis(2-chloroethyl)ether	ND	260	µg/Kg-dry	4	9/21/01 9:37:00 PM
2-Chlorophenol	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
1.3-Dichlorobenzene	ND	260	µg/Kg-dry	4	9/21/01 9:37:00 PM
1,4-Dichlorobenzene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Benzyl alcohol	ND	530	µg/Kg-dry	+	9/21/01 9:37:00 PM
2-Methylphenol	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
1.2-Dichlorobenzene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Bis(2-chloroisopropyl)ether	ND	260	µg/Kg-dry	Ť	9/21/01 9:37:00 PM
4-Methylphenol	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
N-Nitrosodi-n-propylamine	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Hexachloroethane	ND	260	pg/Kg-dry	1	9/21/01 9:37:00 PM
Nitrobenzene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Isophorone	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
2,4-Dimethylphenol	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
Benzoic acid	ND	530	µg/Kg-dry	t	9/21/01 9:37:00 PM
2-Nilrophenol	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
Bis(2-chloroethoxy)methane	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
2.4-Dichlorophenol	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
1.2.4-Trichlorobenzene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Naphthalene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
4-Chloroaniline	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
Hexachlorobutadiene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
4-Chloro-3-methylphenal	ND	530	µg/Kg-dry	1	9/21/01 9:37:00 PM
2-Methylnaphthalene	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
Hexachlorocyclopentadiene	ND	260	μg/Kg-dry	4	9/21/01 9:37:00 PM
2,4,6-Trichlorophenol	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
2,4,5-Trichlorophenol	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
2-Chloronaphthalene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
2-Nitroaniline	ND	530	µg/Kg-dry	1	9/21/01 9:37:00 PM
Dimethyl phthalate	ND	260	µg/Kg-dry	t	9/21/01 9:37:00 PM
2,6-Dinitrotoluene	ND	260	µg/Kg-dry	4	9/21/01 9:37:00 PM
Acenaphthylene	NO	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
3-Nitroaniline	ND	530	µg/Kg-dry	Ť	9/21/01 9:37:00 PM
4-Nitrophenol	ND	530	µg/Kg-dry	1	9/21/01 9:37:00 PM
2,4-Dinitrophenol	ND	530	µg/Kg-dry	1	9/21/01 9:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-04C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
Acenaphthene	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
2,4-Dinitrotoluene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Dibenzofuran	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Diethyl phthalate	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
4-Chlorophenyl phenyl ether	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
Fluorene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
4-Nitroaniline	ND	530	µg/Kg-dry	1	9/21/01 9:37:00 PM
4,6-Dinitro-2-methylphenoi	ND	530	µg/Kg-dry	1	9/21/01 9:37:00 PM
N-Nitrosodiphenylamine	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
1,2-Diphenylhydrazine las Azobenzene)	ND	260	µg/Kg-ary	ì	9/21/01 9:37:00 PM
4-Bromophenyl phenyl 4:25	NO	260	ug/Kg-dry	1	9/21/01 3 37 CO PM
Hexachlorobenzene	MD	250	ug/Kg-arv	10	9/21/01 9 37:00 PM
Pentachlorophena	14D	530	ug/Kg-árv	ī	9/21/01 9.37 00 PM
Phenanthrene	ND	260	ug/Kg-ary	8	9/21/01/05/7/20 PM
Anthracene	ND	280	ug/Kg-art		9/21/01 8 37 30 PM
Carbazole	ND	250	ug/Kg-chy		9/21/01 8 T 30 PM
Di-n-butyl phthagais	NO	260	ig/Kg-arv		9/21/01 9:37:00 PM
Fluoranthene	353	250	ng/Kg-ary		a/21/31 = 37 = 3 PM
Benzidine	ND	260	ug/Kg-dry	1	9/21/01 9:37 00 PM
Pyrene	522	260	∍g/Kg-dr/	*	9/21/01 9:37:00 PM
Butyl benzyl phtharate	MD	260	ug/Kg-dry	Ī	9/21/01 2:3T 00 PM
Bis(2-ethylhexyl)phthalate	DM	260	ug/Kg-dry	1	9/21/01 9:37:00 PM
3.3'-Dichlorobenzidine	ND	260	µg/Kg-dry	1	9/21/01 9:37 00 PM
Benz(a)anthracene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Chrysene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Di-n-octyl phthalate	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Benzo(b)fluoranthene	320	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Benzo(k)fluoranthene	ND	260	μg/Kg-dry	1	9/21/01 9:37:00 PM
Benzo(a)pyrene	ND	260	µg/Kg-dry	4	9/21/01 9:37:00 PM
Dibenz(a,h)anthracene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Indeno(1,2,3-cd)pyrene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM
Benzo(g,h,i)perylene	ND	260	µg/Kg-dry	1	9/21/01 9:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

F - Value above quantitation range

= - See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID: 0109127-05C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	SI	V8270C			Analyst: KD
Pyridine	ND	520	μg/Kg-dry	1	9/21/01 10:09:00 PM
N-Nitrosodimethylamine	ND	520	μg/Kg-dry	1	9/21/01 10:09:00 PM
Phenol	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Bis(2-chloroethyl)ether	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2-Chlorophenol	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
1.3-Dichlorobenzene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
1,4-Dichlorobenzene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Benzyl alcohol	ND	520	μg/Kg-dry	1	9/21/01 10:09:00 PM
2-Methylphenol	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
1.2-Dichlorobenzene	ND	260	µg/Kg-dry	3"	9/21/01 10:09:00 PM
Bis(2-chloroisopropyl)ether	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
4-Methylphenol	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
N-Nitrosodi-n-propylamine	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Hexachloroethane	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Nitrobenzene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Isophorone	VD	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2.4-Dimethylphenol	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Benzoic acid	ND	520	μg/Kg-dry	1	9/21/01 10:09:00 PM
2-Nitrophenol	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Bis(2-chloroethoxy)methane	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2.4-Dichlorophenol	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
1.2,4-Trichlorobenzene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Naphthalene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
4-Chloroaniline	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Hexachlorobutadiene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
4-Chloro-3-methylphenol	ND	520	µg/Kg-dry	1	9/21/01 10:09:00 PM
2-Methylnaphthalene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Hexachlorocyclopentadiene	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
2,4,6-Trichlorophenol	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2,4,5-Trichlorophenal	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2-Chloronaphthalene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2-Nitroaniline	ND	520	μg/Kg-dry	1	9/21/01 10:09:00 PM
Dimethyl phthalate	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
2,6-Dinitrotoluene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Acenaphthylene	⊗ID	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
3-Nitroaniline	ND	520	μg/Kg-dry	1	9/21/01 10:09:00 PM
4-Nitrophenol	ND	520	µg/Kg-dry	1	9/21/01 10:09:00 PM
2,4-Dinitrophenol	ND	520	µg/Kg-dry	1	9/21/01 10:09:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-05C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
Acenaphthene	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
2,4-Dinitrotoluene	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Dibenzofuran	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Diethyl phthalate	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
4-Chlorophenyl phenyl ether	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Fluorene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
4-Nitroaniline	ND	520	µg/Kg-dry	1	9/21/01 10:09:00 PM
4,6-Dinitro-2-methylphenol	NĎ	520	µg/Kg-dry	1	9/21/01 10:09:00 PM
N-Nitrosodiphenylamine	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
4-Bromophenyl onenyl ether	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Hexachlorobenzane	ND	250	µg/Kg-dry	1	9/21/01 10:09:00 PM
Pentachlorophenol	ND	520	µg/Kg-dry	t	9/21/01 10:09:00 PM
Phenanthrene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Anthracene	ND	260	ug/Kg-ary	Ť	9/21/01 10:09:00 FM
Carbazole	ND	260	ug/Kg-dry	1	9/21/01 10 09:00 PM
Di-n-butyl phtharata	ND	260	ua/Kg-arv	1	9/21/01 10:09:00 PM
Fluoranthene	570	260	ug/Kg-dry	1	9/21/01 10:09:00 PM
Benzídine	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Pyrene	510	260	µg/Kg-dry	1.	9/21/01 10:09:00 PM
Butyl benzyl phthalate	ND	260	ug/Kg-dry	1	9/21/01 10 09 00 PM
Bis(2-ethylhexyi)phthalate	ND	260	μg/Kg-dry	7	9/21/01 10:09:00 PM
3,3°-Dichlorobenzidine	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Benz(a)anthracene	310	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Chrysene	380	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Di-n-octyl phthalate	ND	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Benzo(b)fluoranthene	570	260	μg/Kg-dry	1	9/21/01 10:09:00 PM
Benzo(k)fluoranthene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Benzo(a)pyrene	390	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Dibenz(a,h)anthracene	ND	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Indeno(1,2,3-cd)pyrene	380	260	µg/Kg-dry	1	9/21/01 10:09:00 PM
Benzo(g,h,i)perylene	340	260	μg/Kg-dry	1	9/21/01 10:09:00 PM

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ND - Not Detected at the Rep 1000 Limit

S - Spike Recovery outside accepted recovery limits

I - Analyte detected below it

!ation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the

ated Method Blank

E - Value above quantitation range

H - Method prescribed holds:

me exceeded

₹ - See Case Narrative

RL - Reporting Limit: define

the lowest concentration the laboratory can accurately quantitate.

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-01C

Collection Date: 9/18/01

Matrix: SOIL

A SAMPLE OF THE PROPERTY OF THE PARTY OF THE	A				
Analyses	lyses Result RL Qua				Date Analyzed
ORGANOCHLORINE PESTICIDES	sv	V8081A			Analyst: RAF
alpha-BHC	ND	8.0	μg/Kg-dry	10	9/20/01 10:47:00 PM
beta-BHC	ND	8.0	μg/Kg-dry	10	9/20/01 10:47:00 PM
delta-BHC	ND	8.0	µg/Kg-dry	10	9/20/01 10:47:00 PM
gamma-BHC	ND	8.0	µg/Kg-dry	10	9/20/01 10:47:00 PM
Heptachlor	ND	8.0	µg/Kg-dry	10	9/20/01 10:47:00 PM
Aldrin	ND	8.0	µg/Kg-dry	10	9/20/01 10:47:00 PM
Heptachlor epoxide	ND	8.0	μg/Kg-dry	10	9/20/01 10:47:00 PM
Endosulfan I	ND	8.0	µg/Kg-dry	10	9/20/01 10:47:00 PM
alpha-Chlordane	8.8	8.0	µg/Kg-dry	10	9/20/01 10:47:00 PM
gamma-Chlordane	8.9	8.0	μg/Kg-dry	10	9/20/01 10:47:00 PM
Dieldrin	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
4.4'-DDE	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
Endrin	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
Endosulfan II	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
4,4*-DDD	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
Endrin aldehyde	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
Endrin ketone	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
Endosulfan sulfate	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
4.4'-DDT	ND	16	µg/Kg-dry	10	9/20/01 10:47:00 PM
Methoxychlor	ND	80	µg/Kg-dry	10	9/20/01 10:47:00 PM
Toxaphene	ND	250	µg/Kg-dry	10	9/20/01 10:47:00 PM
Technical Chlordane	ND	250	μg/Kg-dry	10	9/20/01 10:47:00 PM

Qualifiers:

ND - Not Detected at ! + Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected be nw quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected to the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

Lab ID:

0109127

0109127-02C

Project: 068511000 Devens Landfill

Collection Date: 9/18/01

Matrix: SOIL

The state of the s							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	
ORGANOCHLORINE PESTICIDES	SV	V8081A				Analyst: RAP	
alpha-BHC	ND	8.3		μg/Kg-dry	10	9/20/01 11:15:00 PM	
beta-BHC	ND	8.3		µg/Kg-dry	10	9/20/01 11:15:00 PM	
delta-BHC	ND	8.3		µg/Kg-dry	10	9/20/01 11:15:00 PM	
gamma-BHC	ND	8.3		µg/Kg-dry	10	9/20/01 11:15:00 PM	
Heptachlor	ND	8.3		μg/Kg-dry	10	9/20/01 11:15:00 PM	
Aldrin	ND	8.3		µg/Kg-dry	10	9/20/01 11:15:00 PM	
Heptachlor epoxide	ND	8.3		µg/Kg-dry	10	9/20/01 11:15:00 PM	
Endosulfan I	ND	8.3		ug/Kg-dry	10	9/20/01 11:15:00 PM	
alpha-Chlordane	ND	8.3		µg/Kg-dry	10	9/20/01 11:15:00 PM	
gamma-Chlordan∈	ND	83		μg/Kg-dry	10	9/20/01 11:15:00 PM	
Dieldrin	ND	17		µg/Kg-dry	10	9/20/01 11:15:00 PM	
4.4'-DDE	NO	17		ug/Kg-dry	10	9/20/01 11:15:00 PM	
Endrin	ND	1.7		µg/Kg-dry	10	9/20/01 11:15:00 PM	
Endosulfan II	ND	17		ug/Kg-dry	10	9/20/01 11:15:00 PM	
4.4'-DDD	ND	17		µg/Kg-dry	10	9/20/01 11:15:00 PM	
Endrin aldehyde	ND	17		ug/Kg-dry	10	9/20/01 11:15:00 PM	
Endrin ketone	ND	17		μg/Kg-dry	10	9/20/01 11:15:00 PM	
Endosulfan sulfate	ND	17		µg/Kg-dry	10	9/20/01 11:15:00 PM	
4,4'-DDT	ND	17		μg/Kg-dry	10	9/20/01 11:15:00 PM	
Methoxychlor	ND	83		μg/Kg-dry	10	9/20/01 11:15:00 PM	
Toxaphene	ND	260		µg/Kg-dry	10	9/20/01 11:15:00 PM	
Technical Chlordane	ND	260		ug/Kg-dry	10	9/20/01 11:15:00 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

E - Value above quantitation range

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-03C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL (Qual Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	sv	V8081A			Analyst: RAF
alpha-BHC	ND	8.4	μg/Kg-dry	10	9/21/01 12:37:00 AM
beta-BHC	ND	8.4	μg/Kg-dry	10	9/21/01 12:37:00 AM
delta-BHC	ND	8.4	µg/Kg-dry	10	9/21/01 12:37:00 AM
gamma-BHC	ND	8.4	μg/Kg-dry	10	9/21/01 12:37:00 AM
Heptachlor	ND	8.4	μg/Kg-dry	10	9/21/01 12:37:00 AM
Aldrin	ND	8.4	μg/Kg-dry	10	9/21/01 12:37:00 AM
Heptachlor epoxide	ND	8.4	µg/Kg-dry	10	9/21/01 12:37:00 AM
Endosulfan I	ND	8.4	µg/Kg-dry	10	9/21/01 12:37:00 AM
alpha-Chlordane	ND	8.4	µg/Kg-dry	10	9/21/01 12:37:00 AM
gamma-Chlordane	ND	8.4	µg/Kg-dry	10	9/21/01 12:37:00 AM
Dieldrin	18	17	μg/Kg-dry	10	9/21/01 12:37:00 AM
4,4'-DDE	43	17	µg/Kg-dry	10	9/21/01 12:37:00 AM
Endrin	ND	17	µg/Kg-dry	10	9/21/01 12:37:00 AM
Endosulfan II	ND	17	μg/Kg-dry	10	9/21/01 12:37:00 AM
4,4*-DDD	190	17	µg/Kg-dry	10	9/21/01 12:37:00 AM
Endrin aldehyde	ND	17	µg/Kg-dry	10	9/21/01 12:37:00 AM
Endrin ketone	ND	17	µg/Kg-dry	10	9/21/01 12:37:00 AM
Endosulfan sulfate	ND	17	µg/Kg-dry	10	9/21/01 12:37:00 AM
4,4'-DDT	380	84	μg/Kg-dry	50	9/22/01 1:03:00 AM
Methoxychlor	ND	84	μg/Kg-dry	10	9/21/01 12:37:00 AM
Toxaphene	ND	260	μg/Kg-dry	10	9/21/01 12:37:00 AM
Technical Chlordane	ND	260	µg/Kg-dry	10	9/21/01 12:37:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-04C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	yses Result RL C		Qual Units	DF	Date Analyzed	
ORGANOCHLORINE PESTICIDES	sv	V8081A			Analyst: RAF	
alpha-BHC	ND	8.4	μg/Kg-dry	10	9/21/01 1:05:00 AM	
beta-BHC	ND	8.4	µg/Kg-dry	10	9/21/01 1:05:00 AM	
delta-BHC	ND	8.4	μg/Kg-dry	10	9/21/01 1:05:00 AM	
gamma-BHC	ND	8.4	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Heptachlor	ND	8.4	μg/Kg-dry	10	9/21/01 1:05:00 AM	
Aldrin	ND	8.4	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Heptachlor epoxide	ND	8.4	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Endosulfan I	ND	8.4	μg/Kg-dry	10	9/21/01 1:05:00 AM	
alpha-Chlordane	ND	8.4	μg/Kg-dry	10	9/21/01 1:05:00 AM	
gamma-Chlordane	ND	8.4	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Dieldrin	ND	17	μg/Kg-dry	10	9/21/01 1:05:00 AM	
4,4'-DDE	ND	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Endrin	ND	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Endosulfan II	ND	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
4,4'-DDD	58	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Endrin aldehyde	ND	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Endrin ketone	ND	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Endosulfan sulfate	ND	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
4,4°-DDT	98	17	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Methoxychlor	ND	84	µg/Kg-dry	10	9/21/01 1:05:00 AM	
Toxaphene	ND	260	µg/Kg-dry	10	9/21/01 1:05.00 AM	
Technical Chlordane	ND	260	µg/Kg-dry	10	9/21/01 1:05:00 AM	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-05C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	sv	V8081A				Analyst: RAP
alpha-BHC	ND	8.4		μg/Kg-dry	10	9/21/01 1:33:00 AM
beta-BHC	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
delta-BHC	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
gamma-BHC	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
Heptachlor	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
Aldrin	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
Heptachlor epoxide	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
Endosulfan I	ND	8.4		μg/Kg-dry	10	9/21/01 1:33:00 AM
alpha-Chlordane	ND	8.4		µg/Kg-dry	10	9/21/01 1:33:00 AM
gamma-Chlordane	ND	8.4		μg/Kg-dry	10	9/21/01 1:33:00 AM
Dieldrin	ND	17		μg/Kg-dry	10	9/21/01 1:33:00 AM
4,4'-DDE	ND	17		μg/Kg-dry	10	9/21/01 1:33:00 AM
Endrin	ND	17		µg/Kg-dry	10	9/21/01 1:33:00 AM
Endosulfan II	ND	17		µg/Kg-dry	10	9/21/01 1:33:00 AM
4,4'-DDD	140	17		µg/Kg-dry	10	9/21/01 1:33:00 AM
Endrin aldehyde	ND	17		μg/Kg-dry	10	9/21/01 1:33:00 AM
Endrin ketone	ND	17		μg/Kg-dry	10	9/21/01 1:33:00 AM
Endosulfan sulfate	ND	17		μg/Kg-dry	10	9/21/01 1:33:00 AM
4,4'-DDT	190	17		µg/Kg-dry	10	9/21/01 1:33:00 AM
Methoxychlor	ND	84		µg/Kg-dry	10	9/21/01 1:33:00 AM
Toxaphene	ND	260		µg/Kg-dry	10	9/21/01 1:33:00 AM
Technical Chlordane	ND	260		μg/Kg-dry	10	9/21/01 1:33:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

CONTINUING CALLER TON SUMMARY

Analysis Date:	20 Sep 2001	-	Analyst:	RAP		
Instrument ID:	TRENT					
COLUMN ID:	FRONT CLP Pesticide 1; 0.32m	<u>m</u>	BACK CLP Pesticide	: 2: 0.32mm		
BREAKDOWN (1)						
	Front		Back			
DDT	13.5	TOO	4.0			
ENDRIN	6.7	ENDRIN	1.4			
	Initial CCV: F12			Te	rm. CCV: F13	
INDA						
2002-000	Front	Back		Fr	ont	Back
TCX		-0.3	1	TCX	-0.6	-1.5
ALPHA-BHC		-12.5		ALPHA-BHC	-12.7	0.2
GAMMA-BHC	-45.5 *	-13.1		GAMMA-BHC	-11.4	-0.7
HEPTACHLOR		-1.6		HEPTACHLOR	-8.8	-2.7
ENDOSULFAN		-7.8		ENDOSULFANI	-1.6	-4.8
DIELDRIN		-5.7		DIELDRIN	1.0	-2.9
ENDRIN		-7.0		ENDRIN	-0.3	2.2
DDD		-12.7		DDD	4.8	2.1
DDI		-10.7		DDT	-43.3 *	* -32.0
METHOXYCHLOR		-8.9	4	ETHOXYCHLOR	-27.9 *	+ -17.1
DCS		-6.2	4	DCB	-3.9	-5.9
	,[-0.2	4	DCB	-5.5	-3.7
INDB	200		-			200
	Front	Back		F	ront	Back
TC	-10.4	1.2		7CX	-6.6	-3.7
ALDRE		-1).8	31	ALDRIN	-6.2	-().2
BETA-BHO		-0.7	-	BETA-BHC	4.3	3.9
DELTA-BHO		* -42.8		DELTA-BHC	-25.5 *	15.0
HEPTACHLOR EPONID		-1.5	-	HLOR EPONIDE	1.4	-0.2
GAMMA-CHLORDAN		-2.1	-	A-CHLORDANE	-3.6	-0.6
ALPHA-CHLORDAN		-3.2	-	IA-CHLORDANE	-1_8	-1.2
DD		-10.0	-	DDE	0,4	-6.0
ENDOSULFAN		-1,2	-	ENDOSULFAN II	+3.7	2.1
ENDRIN ALDEHYD		2.5	-	RIN ALDEHYDE	-3,3	5.1
ENDOSULFAN SULFAT		* -28.8	-	LFAN SULFATE	-14.7	12.9
ENDRIN KETON	-	-13.9	-	NDRIN KETONE	-12.2	11.6
DC		-2.0	_	DCB_	-3.3	5.4
Ave. %Drift for all ana	21.9	8.3		ve. %Drift for all	8.5	5.8
	Data Files			:\HPCHEM\1\DA		
1st INDA: C:\HPCH 1st INDB: C:\HPCH	EM\1\DATA\01JUL20	T20JUL01.D	2nd INDA: C	:\HPCHEM\1\DA	ATA\01SEP20\ ATA\01SEP20\	T20SEP03.D
	FM\1\DATA\01SEP20			MPCHEMMAD		

1. 4,4' DDT and Endrin maximum degradation = 15%

2. Ave %Drift maximum = 15%

CONTINUING CALIBRATION SUMMARY

Analysis Date:	21 Sep 2001		Analyst:	RAP			
Instrument ID:	TRENT						
COLUMN ID:	FRONT CLP Pesticide 1: 0.3	2mm	BACK CLP Pestici	de 2; 0.32mm			
BREAKDOWN (1)):						
¥	Front		Back				
DDT	10.8	D	DT 5.4				
ENDRIN		ENDI					
	Initial CCV: F14			Ter	m. CCV: F15		
INDA							
*******	Front	Dools		E-			Doole
		Back	- 0]	Fro			Back
TCN		-	-5.0	TCX	-29.4 *		-4:4
ALPHA-BHO			11.2	ALPHA-BHC	-49.0 *		-10.7
GAMMA-BHO			22.5	GAMMA-BHC	-50.3 *		-8.8
HEPTACHLOR		-	2.0	HEPTACHLOR	-28.0 *		-1.3
ENDOSULFAN DIELDRIN			-5.0 -4.5	ENDOSULFAN I	-33.7 *		-2.6
				DIELDRIN	-33.2 *		-1.3
ENDRIN DDI			-3.1	ENDRIN	-31.9 *		3.5
DD.		1	00.7	DDD	-71.4 *	*	-32.9
METHOXYCHLOR		-		METHOXYCHLOR	-53.7 *		
DCI			<u>+21</u> +2.51	DCB	-13.9		-14.9
INDB	-10.2		<u> </u>	М.В.	*13.7		*3./
	Front	Back		Fr	ont		Back
TC:	-31.91 *		×5.8	TCX	-33.0 *		-8.5
ALDRE	× -36.5 +		-0.4	ALDRIN	-39.5 *		-6.7
BETA-BH	c -38.91 *		- 9	BETA-BHC	-35.1 *		-5.2
DELTA-BH	c -93.6 =	*	56.0	DELTA-BHC	-66.2 *		1.8
HEPTACHLOR EPOXID	E -22.5 *		HEPT.	ACHLOR EPOXIDE	-24.2 *		0.5
GAMMA-CHLORDAN	E -18.9 *		- 1 GAM	MA-CHLORDANE	-24.4 *		-1.6
ALPHA-CHLORDAN			AL	PHA-CHLORDANE	-25.8 *		-0.4
DD				DDE	46.6 *		-3.0
ENDOSULFAN				ENDOSULFAN II	-39.8 *		3.8
ENDRIN ALDEHYD			0 EN	DRIN ALDEHYDE	-22.8 *		4.4
ENDOSULFAN SULFAT				SULFAN SULFATE	47.8 *		10.3
ENDRIN KETON		*	78.5	ENDRIN KETONE	44.3 *		9.4
DC			.5	DCB	-10.7		-1.2
Ave. %Drift for all ana				Ave. %Drift for all a			5.2
	42.2	-	111.3	-	37.2		6.1
	Data Files			C:\HPCHEM\1\DA			
1st INDA: C:\HPCH	EM\1\DATA\01JUL	20\T20JUL0	1.D 2nd INDA:	C:\HPCHEM\1\DA	TA\01SEP21	\T21SE	.P03.D
1st INDB: C:\HPCH	EM\1\DATA\01SEF	21\T21SEP	01.D 2nd INDB:	C:\HPCHEM\1\DA	TA\01SEP21	\T21SE	:P21.D

C:\HPCHEM\1\DATA\01SEP21\T21SEP02.D C:\HPCHEM\1\DATA\01SEP21\T21SEP22.D

Notes:

1. 4,4' DDT and Endrin maximum degradation = 15%

2. Ave %Drift maximum = 15%

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-01C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082				Analyst: RAP
Aroclor 1016	ND	25		µg/Kg-dry	1	9/20/01 8:31:00 PM
Aroclor 1221	ND	25		µg/Kg-dry	1	9/20/01 8:31:00 PM
Aroclor 1232	ND	25		µg/Kg-dry	1	9/20/01 8:31:00 PM
Aroclor 1242	ND	25		µg/Kg-dry	1	9/20/01 8:31:00 PM
Aroclor 1248	ND	25		µg/Kg-dry	1	9/20/01 8:31:00 PM
Aroclor 1254	ND	25		µg/Kg-dry	1	9/20/01 8:31.00 PM
Aroclor 1260	ND	25		µg/Kg-dry	1	9/20/01 8:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding that exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-02C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Qual	Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082			Analyst: RAP
Aroclor 1016	ND	26	μg/Kg-dry	1	9/20/01 8:58:00 PM
Aroclor 1221	ND	26	μg/Kg-dry	1	9/20/01 8:58:00 PM
Aroclor 1232	ND	26	µg/Kg-dry	1	9/20/01 8:58:00 PM
Aroclor 1242	ND	26	μg/Kg-dry	1	9/20/01 8:58:00 PM
Aroclor 1248	ND	26	μg/Kg-dry	1	9/20/01 8:58:00 PM
Aroclor 1254	ND	26	µg/Kg-dry	-1	9/20/01 8:58:00 PM
Aroclor 1260	ND	26	µg/Kg-dry	1	9/20/01 8:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quartation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the ciated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-03C

Matrix: SOIL

Analyses	Result	RL Q	ial Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082			Analyst: RAP
Aroclor 1016	ND	26	μg/Kg-dry	1	9/20/01 9:24:00 PM
Aroclor 1221	ND	26	µg/Kg-dry	1	9/20/01 9:24:00 PM
Aroclor 1232	ND	26	µg/Kg-dry	1	9/20/01 9:24:00 PM
Aroclor 1242	ND	26	µg/Kg-dry	1	9/20/01 9:24:00 PM
Aroclor 1248	ND	26	µg/Kg-dry	1	9/20/01 9:24:00 PM
Aroclor 1254	ND	26	µg/Kg-dry	4	9/20/01 9:24:00 PM
Aroclor 1260	ND	26	µg/Kg-dry	1	9/20/01 9:24:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-04C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082			Analyst: RAP
Aroclor 1016	ND	26	μg/Kg-dry	1	9/20/01 9:51:00 PM
Aroclor 1221	ND	26	µg/Kg-dry	1	9/20/01 9:51:00 PM
Aroclor 1232	ND	26	µg/Kg-dry	1	9/20/01 9:51:00 PM
Aroclor 1242	ND	26	µg/Kg-dry	1	9/20/01 9:51:00 PM
Aroclor 1248	ND	26	µg/Kg-dry	1	9/20/01 9:51:00 PM
Aroclor 1254	ND	26	µg/Kg-dry	1	9/20/01 9:51:00 PM
Aroclor 1260	ND	26	μg/Kg-dry	1	9/20/01 9:51:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-05C

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL (Qual Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082			Analyst: RAP
Aroclor 1016	ND	26	μg/Kg-dry	1	9/20/01 11:11:00 PM
Aroclor 1221	ND	26	µg/Kg-dry	1	9/20/01 11:11:00 PM
Aroclor 1232	ND	26	µg/Kg-dry	4	9/20/01 11:11:00 PM
Aroclor 1242	ND	26	μg/Kg-dry	1	9/20/01 11:11:00 PM
Aroclor 1248	ND	26	µg/Kg-dry	1	9/20/01 11:11:00 PM
Aroclor 1254	ND	26	ug/Kg-dry	1	9/20/01 11:11:00 PM
Aroclor 1260	38	26	ug/Kg-dry	1	9/20/01 11:11:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-01D

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: KD
Diesel Range Organics	ND	49	mg/Kg-dry	1	9/21/01 12:23:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-02D

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	V8015B			Analyst: KD
Diesel Range Organics	ND	52	mg/Kg-dry	1	9/21/01 1:00:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-03D

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B				Analyst: KD
Diesel Range Organics	83	51		mg/Kg-dry	1	9/21/01 1:36:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-04D

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: KD
Diesel Range Organics	150	52		mg/Kg-dry	1	9/21/01 2:12:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Project:

068511000 Devens Landfill

Lab ID:

0109127-05D

Collection Date: 9/18/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B				Analyst: KD
Diesel Range Organics	120	51	i	mg/Kg-dry	1	9/21/01 2:48:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the assertated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-196

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-01B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBON	s	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.2		mg/Kg-dry	i	9/21/01 7:34:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	0.56		mg/Kg-dry	1	9/21/01 7:34:00 AM
C9-C10 Aromatic Hydrocarbons	ND	0.56		mg/Kg-dry	1	9/21/01 7:34:00 AM
Methyl tert-butyl ether	ND	0.045		mg/Kg-dry	1	9/21/01 7:34:00 AM
Benzene	ND	0.045		mg/Kg-dry	1	9/21/01 7:34:00 AM
Toluene	ND	0.045		mg/Kg-dry	1	9/21/01 7:34:00 AM
Ethylbenzene	ND	0.045		mg/Kg-dry	1	9/21/01 7:34:00 AM
m,p-Xylene	ND	0.045		mg/Kg-dry	1	9/21/01 7.34:00 AM
o-Xylene	ND	0.045		mg/Kg-dry	1	9/21/01 7:34:00 AM
Naphthalene	ND	0.11		mg/Kg-ary	1	9/21/01 7 34:00 AM
Surr: Dibromofluoromethane	99.8	70-130		%REC	1	9/21/01 7:34:00 AM
Surr: 1,2-Dichloroethane-d4	91,4	70-130		%REC	1	9/21/01 7:34:00 AM
Surr: Toluene-d8	103	70-130		%REC	1	9/21/01 7:34:00 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	9/21/01 7:34:00 AM
Surr: 2,5-Dibromotoluene	100	70-130		%REC	1	9/21/01 7:34:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

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Were all QA/QC procedures required by the VPH or EPH method followed:

No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No √ Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-02B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBONS	3	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.5		mg/Kg-dry	1	9/21/01 8:10:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	0.62		mg/Kg-dry	1	9/21/01 8:10:00 AM
C9-C10 Aromatic Hydrocarbons	ND	0.62		mg/Kg-dry	1	9/21/01 8:10:00 AM
Methyl tert-butyl ether	ND	0.050		mg/Kg-dry	1	9/21/01 8:10:00 AM
Benzene	ND	0.050		mg/Kg-dry	1	9/21/01 8:10:00 AM
Toluene	ND	0.050		mg/Kg-dry	1	9/21/01 8:10:00 AM
Ethylbenzene	ND	0.050		mg/Kg-dry	1	9/21/01 8:10:00 AM
m,p-Xylene	ND	0.050		mg/Kg-dry	1	9/21/01 8:10:00 AM
o-Xylene	ND	0.050		mg/Kg-dry	1	9/21/01 8:10:00 AM
Naphthalene	ND	0.12		mg/Kg-dry	1	9/21/01 8:10:00 AM
Surr: Dibromofluoromethane	93.7	70-130		%REC	1	9/21/01 8:10:00 AM
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%REC	1	9/21/01 8:10:00 AM
Surr: Toluene-d8	98.0	70-130		%REC	1.	9/21/01 8:10:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/21/01 8:10:00 AM
Surr: 2,5-Dibromotoluene	102	70-130		%REC	1	9/21/01 8:10:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

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Were all QA/QC procedures required by the VPH or EPH method followed:

No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

DATE:

9-26-01

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-03B

Matrix: SOIL

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBON	IS	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.8		mg/Kg-dry	1	9/21/01 9:54:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	0.69		mg/Kg-dry	1	9/21/01 9:54:00 AM
C9-C10 Aromatic Hydrocarbons	ND	0.69		mg/Kg-dry	1	9/21/01 9:54:00 AM
Methyl tert-butyl ether	ND	0.056		mg/Kg-dry	1	9/21/01 9:54:00 AM
Benzene	ND	0.056		mg/Kg-dry	1	9/21/01 9:54:00 AM
Toluene	ND	0.056		mg/Kg-dry	1	9/21/01 9:54:00 AM
Ethylbenzene	ND	0.056		mg/Kg-dry	1	9/21/01 9:54:00 AM
m,p-Xylene	ND	0.056		mg/Kg-dry	1	9/21/01 9:54:00 AM
o-Xylene	ND	0.056		mg/Kg-dry	1	9/21/01 9:54:00 AM
Naphthalene	ND	0.14		mg/Kg-dry	1	9/21/01 9:54:00 AM
Surr: Dibromofluoromethane	82.0	70-130		%REC	1	9/21/01 9:54:00 AM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	9/21/01 9:54:00 AM
Surr: Toluene-d8	110	70-130		%REC	4	9/21/01 9:54:00 AM
Surr: 4-Bromofluorobenzene	1.06	70-130		%REC	1	9/21/01 9:54:00 AM
Surr: 2,5-Dibromotoluene	95.4	70-130		%REC	1	9/21/01 9:54 00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

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Were all QA/QC procedures required by the VPH or EPH method followed:

Yes No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

Myster

9-26-01

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-04B

Matrix: SOIL

Analyses	Result	RL	Qual 1	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBON	s	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.8	1	mg/Kg-dry	1	9/21/01 10:48:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	0.70	Ţ	mg/Kg-dry	1	9/21/01 10:48:00 AM
C9-C10 Aromatic Hydrocarbons	ND	0.70	1	mg/Kg-dry	1	9/21/01 10:48:00 AM
Methyl tert-butyl ether	ND	0.056	1	mg/Kg-dry	1	9/21/01 10:48:00 AM
Benzene	ND	0.056	1	mg/Kg-dry	1	9/21/01 10:48:00 AM
Toluene	ND	0.056	1	mg/Kg-dry	1	9/21/01 10:48:00 AM
Ethylbenzene	ND	0.056		mg/Kg-dry	1	9/21/01 10:48:00 AM
m,p-Xylene	ND	0.056	b)	mg/Kg-dry	1	9/21/01 10:48:00 AM
o-Xylene	ND	0.056	,	mg/Kg-dry	1	9/21/01 10:48:00 AM
Naphthalene	ND	0.14		mg/Kg-dry	1	9/21/01 10:48:00 AM
Surr: Dibromofluoromethane	112	70-130	6 8	%REC	1	9/21/01 10:48:00 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	3	%REC	1	9/21/01 10:48:00 AM
Surr: Toluene-d8	129	70-130		%REC	1	9/21/01 10:48:00 AM
Surr. 4-Bromofluorobenzene	130	70-130)	%REC	1	9/21/01 10:48:00 AM
Surr: 2,5-Dibromotoluene	114	70-130		%REC	1	9/21/01 10:48:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFI	CATI	ON
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Were all QA/QC procedures required by the VPH or EPH method followed:

Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes __/ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

.

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit.

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-200

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-05B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBONS	3	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.4		mg/Kg-dry	1	9/21/01 11:24:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	0.60		mg/Kg-dry	1	9/21/01 11:24:00 AM
C9-C10 Aromatic Hydrocarbons	ND	0.60		mg/Kg-dry	1	9/21/01 11:24:00 AM
Methyl tert-butyl ether	ND	0.048		mg/Kg-dry	1	9/21/01 11:24:00 AM
Benzene	ND	0.048		mg/Kg-dry	1	9/21/01 11:24:00 AM
Toluene	ND	0.048		mg/Kg-dry	1	9/21/01 11:24:00 AM
Ethylbenzene	ND	0.048		mg/Kg-dry	1	9/21/01 11:24:00 AM
m,p-Xylene	ND	0.048		mg/Kg-dry	1	9/21/01 11:24:00 AM
o-Xylene	ND	0.048		mg/Kg-dry	1	9/21/01 11:24:00 AM
Naphthalene	ND	0.12		mg/Kg-dry	1	9/21/01 11:24:00 AM
Surr: Dibromofluoromethane	97.9	70-130		%REC	1	9/21/01 11:24:00 AM
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%REC	1	9/21/01 11:24:00 AM
Surr: Toluene-d8	101	70-130		%REC	1	9/21/01 11:24:00 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	9/21/01 11:24:00 AM
Surr: 2,5-Dibromotoluene	104	70-130		%REC	1	9/21/01 11:24:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIF	ICATION
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Were all QA/QC procedures required by the VPH or EPH method followed:

Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No V Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

la de la

TE: 4-26-01

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: Stone & Webster Construction Co. Client Sample ID: DLRP-SP-196

Date: 26-Sep-01

Lab Order: 0109127 Tag Number:

Project: 068511000 Devens Landfill Collection Date: 9/18/01
Lab ID: 0109127-01D Matrix: SOIL

DF Analyses Result RL Qual Units Date Analyzed EXTRACTABLE PETROLEUM HYDROCARBONS Analyst: RKK *** Sample receipt problems were observed for this test method. See Case Narrative for details. *** C9-C18 Aliphatic Hydrocarbons ND 49 mg/Kg-dry 9/22/01 7:14:00 AM C19-C36 Aliphatic Hydrocarbons 49 9/22/01 7:14:00 AM ND mg/Kg-dry 1 C11-C22 Aromatic Hydrocarbons ND 49 mg/Kg-dry 1 9/22/01 7:14:00 AM Naphthalene 0.24 ND mg/Kg-dry 1 9/22/01 7:14:00 AM 2-Methylnaphthalene 0.24 1 ND mg/Kg-dry 9/22/01 7:14:00 AM Acenaphthylene 0.24 ND 9/22/01 7:14:00 AM mg/Kg-dry Acenaphthene 0.24 9/22/01 7:14:00 AM ND mg/Kg-dry Fluorene 0.24 1 ND mg/Kg-dry 9/22/01 7:14:00 AM Phenanthrene ND 0.24 Ť 9/22/01 7:14:00 AM mg/Kg-dry Anthracene ND 0.24 mg/Kg-dry 9/22/01 7:14:00 AM Fluoranthene ND 0.24 4 9/22/01 7:14:00 AM mg/Kg-dry Pyrene ND 0.24mg/Kg-dry 9/22/01 7:14:00 AM Benz(a)anthracene 0.24 1 9/22/01 7:14:00 AM ND mg/Kg-dry Chrysene ND 0.24 1 9/22/01 7:14:00 AM mg/Kg-dry Benzo(b)fluoranthene ND 0.24 mg/Kg-dry 9/22/01 7:14:00 AM Benzo(k)fluoranthene ND 0.24 1 9/22/01 7:14:00 AM mg/Kg-dry Benzo(a)pyrene ND 0.24 mg/Kg-dry 1 9/22/01 7:14:00 AM Dibenz(a,h)anthracene ND 9/22/01 7:14:00 AM 0.24 1 mg/Kg-dry 9/22/01 7:14:00 AM Indeno(1,2,3-cd)pyrene ND 0.24 mg/Kg-dry 1 9/22/01 7:14:00 AM Benzo(g,h,i)perylene ND 0.24 mg/Kg-dry 1 Surr. 1-Chlorooctadecane 82.5 40-140 %REC 4 9/22/01 7:14:00 AM Surr: 2-Bromonaphthalene 88.3 40-140 %REC 1 9/22/01 7:14:00 AM Surr: 2-Fluorobiphenyl 92.7 40-140 %REC 9/22/01 7:14:00 AM Surr: o-Terphenyl %REC 9/22/01 7:14:00 AM 85.2 40-140

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed:

Were all QA/QC procedures required by the VPH or EPH method followed:

Yes _____ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes _____ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: No Ves - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the cest of my knowledge and belief, accurate and complete.

SIGNATURE: 9-26-0/

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank H - Method prescribed holding time exceeded

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-197

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-02D

Matrix: SOIL

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	OCARBONS MA	EPH			Analyst: RKK
** Sample receipt problems were observe	d for this test method.	See Case Narra	tive for details. *	***	V. 200 C. C.
C9-C18 Aliphatic Hydrocarbons	ND	54	mg/Kg-dry	1	9/22/01 7:49:00 AM
C19-C36 Aliphatic Hydrocarbons	ND	54	mg/Kg-dry	1	9/22/01 7:49:00 AM
C11-G22 Aromatic Hydrocarbons	ND	54	mg/Kg-dry	1	9/22/01 7:49:00 AM
Naphthalene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
2-Methylnaphthalene	ND	0.27	mg/Kg-dry	- 1	9/22/01 7:49:00 AM
Acenaphthylene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Acenaphthene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Fluorene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Phenanthrene	ND	0:27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Anthracene	ND	0.27	mg/Kg-dry	-1	9/22/01 7.49:00 AM
Fluoranthene	0.32	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Pyrene	0.31	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Benz(a)anthracene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Chrysene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Benzó(b)fluoranthene	0.43	0.27	mg/Kg-dry	1	9/22/01 7:49 00 AM
Benzo(k)fluoranthene	ND.	0.27	mg/Kg-dry	3	9/22/01 7:49:00 AM
Benzo(a)pyrene	0.31	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Dibenz(a.h)anthracene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Indeno(1.2.3-cd)pyrene	ND	0.27	mg/Kg-dry	1	9/22/01 7:49:00 AM
Benzo(g,h,i)perylene	ND	0.27	mg/Kg-dry	A	9/22/01 7:49:00 AM
Surr: 1-Chlorooctadecane	89.1	40-140	%REC	1	9/22/01 7:49:00 AM
Surr 2-Bromonaphthalene	99 0	40-140	%REC	1	9/22/01 7:49:00 AM
Surr 2-Fluorobiphenyl	105	40-140	%REC	1	9/22/01 7:49:00 AM
Surr: o-Terphenyl	97.9	40-140	%REC	1	9/22/01 7:49:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedure	s required by the	VPH or EPH method	followed
--------------------------	-------------------	-------------------	----------

¥ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes Vo - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: _____ No ___ Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the

information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

PRINTED NAME: Nancy Stewart

DATE

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-198

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-03D

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	ROCARBONS MA	EPH			Analyst: RKK
*** Sample receipt problems were observe	d for this test method.	See Case	Narrative for details. *	**	
C9-C18 Aliphatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/22/01 8:24:00 AM
C19-C36 Aliphatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/22/01 8:24:00 AM
C11-C22 Aromatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/22/01 8:24:00 AM
Naphthalene	ND	0.26	mg/Kg-dry	1	9/22/01 8:24:00 AM
2-Methylnaphthalene	ND	0.26	mg/Kg-dry	1	9/22/01 8:24:00 AM
Acenaphthylene	ND	0.26	mg/Kg-dry	1	9/22/01 8:24:00 AM
Acenaphthene	ND	0.26	mg/Kg-dry	1	9/22/01 8:24:00 AM
Fluorene	ND	0.26	mg/Kg-dry	1	9/22/01 8:24:00 AM
Phenanthrene	0.48	0.26	mg/Kg-dry	1	9/22/01 3:24:00 AM
Anthracene	ND	0.26	mg/Kg-ary	1	9/22/01 8:24:00 AM
Fluoranthene	75	0.28	mg/Kg-dry	1	9/22/01 5:24:00 AM
Pyrene	1.2	0.26	mg/Kg-dry	1	9/22/01 3:24 00 AM
Benz(a)anthracens	0.74	0.26	mg/Kg-ary	1	9/22/01 8 24 CO AM
Chrysene	0.87	0.26	mg/Kg-dry	4	9/22/01 8:24 CO AM
Benzo(b)fluoranthene	1.4	0.25	ing/Kg-ary	*	9/22/01 8:24:00 AM
Benzo(k)fluoranthens	0.49	0.26	mg/Kg-ar/	1:	9/22/01 8:24 00 AM
Benzo(a)pyrene	0.86	0.26	mg/Kg-dry	9	9/22/01 8:24:00 AM
Dibenz(a,h)anthracene	NO	0.25	mg/Kg-dry	7	9/22/01 3:24:00 AM
Indeno(1,2,3-cd)pyrene	3.59	0.26	mg/Kg-dry	1	9/22/01 8:24 00 AM
Benzo(g,h,i)perylene	0.46	0 26	mg/Kg-ary	1	9/22/01 8:24 00 AM
Surr: 1-Chlorooctadecane	77 1	40-140	%REC	1	9/22/01 8:24:00 AM
Surr: 2-Bromonaphthalene	91,2	40-140	%REC	1	9/22/01 8:24:00 AM
Surr: 2-Fluorobiphenyl	94.6	40-140	%REC	1	9/22/01 8:24:00 AM
Surr: o-Terphenyl	79.1	40-140	%REC	1	9/22/01 8:24:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION	KIIFI	CALL	ON
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Were all QA/QC procedures required by the VPH or EPH method followed:

Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

Yes Vo - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: _____No ___/ Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

.. .

DATE

7-76-01

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the towest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

pike Recovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limits

RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-199

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab ID:

0109127-04D

Matrix: SOIL

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	OCARBONS M	AEPH			Analyst: RKF
*** Sample receipt problems were observe	d for this test metho	d. See Case Nama	tive for details. *		
C9-C18 Aliphatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/22/01 9:35:00 AM
C19-C36 Aliphatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/22/01 9:35:00 AM
C11-C22 Aromatic Hydrocarbons	ND	52	mg/Kg-dry	1:	9/22/01 9:35:00 AM
Naphthalene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
2-Methylnaphthalene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35.00 AM
Acenaphthylene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Acenaphthene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Fluorene	ND	0,26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Phenanthrene	ND	0.26	mg/Kg-dry	3	9/22/01 9:35:00 AM
Anthracene	ND	0.26	mg/Kg-dry	7	9/22/01 9:35 00 AM
Fluoranthene	0.45	0,26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Pyrene	0.40	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Benz(a)anthracene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Chrysene	0.30	0.26	mg/Kg-dry	4	9/22/01 9:35:00 AM
Benzo(b)fluoranthene	0.48	0.26	rng/Kg-dry	- 1	9/22/01 9:35:00 AM
Benzc(k)fluoranthene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Benzo(a)pyrene	0.32	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Dibenz(a.h)anthracene	ND	0.36	mg/Kg-dry	1	9/22/01 9:35:00 AM
Indeno(1.2,3-cd)pyrene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Benzo(g,h,i)perylene	ND	0.26	mg/Kg-dry	1	9/22/01 9:35:00 AM
Surr: 1-Chlorooctadecane	91.8	40-140	%REC	3	9/22/01 9:35:00 AM
Surr: 2-Bromonaphthalene	89.4	40-140	%REC	1	9/22/01 9:35:00 AM
Surr: 2-Fluorobiphenyl	93,6	40-140	%REC	4	9/22/01 9:35:00 AM
Surr: o-Terphenyl	83.9	40-140	%REC	1	9/22/01 9:35:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

this range and concentration of Ca-C to Arbitratic Hydrocarbons.	
CERTIFICATION	/
Were all QA/QC procedures required by the VPH or EPH method followed:	✓ YesNo - If No, See Case Narrative
Were all performance/acceptance standards for required QA/QC procedures achi	
Were any significant modifications made to the method as specified in section 11	1.3; No Yes - Details enclosed
I attest under the pains and penalties of a mary that, based upon my inquiry of the Information, the material contained in the apport is, to the best of my knowledge a	hose individuals immediately responsible for obtaining the and belief, accurate and complete.
SIGNATURE: LE EL	DATE: 9-26-01
PRINTED NAME: Nancy Stewart	POSITION: Laboratory Director (or designee)

Quanners:	RL - Reporting Limit; defined	Int

e lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S-Spike Recovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limit-

R - RPD outside accepted recovery limits

- Sec Case Narrative

B - Analyte detected in the associated Method Dank

Date: 26-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample 1D: DLRP-SP-200

Lab Order:

0109127

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/18/01

Lab 1D:

0109127-05D

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	OCARBONS N	IAEPH			Analyst: RKK
** Sample receipt problems were observed	d for this test metho	d. See Case Na	arrative for details. *	9	
C9-C18 Aliphatic Hydrocarbons	ND	53	mg/Kg-ttry	1	9/22/01 10:11 00 AM
C19-C36 Aliphatic Hydrocarbons	ND	53	mg/Kg-dry	1	9/22/01 10:11 00 AM
C11-C22 Aromatic Hydrocarbons	ND	53	mg/Kg-dry	1	9/22/01 10:11:00 AM
Naphthalene	ND	0.26	mg/Kg-dry	1	9/22/01 10:11:00 AM
2-Methylnaphthalene	ND.	0.26	mg/Kg-dry	1	9/22/01 10:11:00 AM
Acenaphthylene	ND	0.26	mg/Kg-dry	1	9/22/01 10:11:00 AM
Acenaphthene	ND	0.26	mg/Kg-dry	1	9/22/01 10 11 00 AM
Fluorene	ND	0.26	mg/Kg-dry	1	9/22/01 10:11:00 AM
Phenanthrene	ND	0.26	mg/Kg-dry	710	9/22/01 10 11 00 AM
Anthracene	ND	0.26	risg/Kg-dry	1	9/22/01 10 IT CO AM
Fluoranthene	0.75	0,26	mg/Kg-dry	19	9/22/01 TO TEC AM
Pyrene	3.69	0.26	тід/Кд-фту	1	9/22/01 10 11 00 AM
Benz(a)anthracene	0.48	0.25	≈g/Kg-cny	3	9/22/01 10 11 00 AM
Chrysene	0.61	0.26	түз:Ка-агу	1	9/22/01 10 11 00 AM
Benzo(b)fluoranthene	0.92	0.25	mg/Kg-any	3.	9/22/01 10.11 00 AM
Benzo(k)fluoranthene	364	125	mg/Kg-diy	- 77	9/22/01 10.11 06.4M
Benzo(a)pyrene	0.58	0.26	mg/Kg-ary	1	9/22/01 10 11 00 AM
Dibenz(a,h)anthracene	NO.	0.25	mg/Kg-dry	1	9/22/01 15 11 CO AM
Indeno(1,2,3-cd)pyrene	0.45	0.26	ing/Kg-ary	1	9/22/01 10 11 00 AM
Benzo(g,h,i)perylene	0.30	0.26	ing/Kg-ary	8	9/22/01 10 11:00 AM
Surr: 1-Chlorooctadecane	82.9	40-140	%REC	4	9/22/01 10:11 00 AM
Surr: 2-Bromonaphthalene	96.4	40-140	WREC	1	9/22/01 10:11:00 AM
Surr: 2-Fluorobiphenyi	104	40-140	%REC	1	9/22/01 10:11:00 AM
Surr: o-Terphenyl	84.6	40-140	%REC	1	9/22/01 10:11:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

PIE	DT	15	mA.	TION
No.	1	-	LA.	LICHN

SERTIFICATION			
Were all QA/QC procedures required by the VPH or EPH method followed:	✓ Yes		No - If No, See Case Narrative
Were all performance/acceptance standards for required QA/QC procedures achieved:	Yes	V	No - If No, See Case Narrative
Were any significant modifications made to the method as specified in section 11.3:	No	V	Yes - Details enclosed
Lattact under the paint and excelling of paging that, based upon my include of those in	dividuale in	modi	ately recogneible for obtaining t

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

PRINTED NAME. Nancy Stewart

DATE 9-26-01

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting I limit: defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery fimits

E - Value above quantitation range

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- Nee Case Narrative

B - Analyte detected in the associated Method Blank

Lab Order:

0109127

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Analysis Da	Prep Date	TCLP Date	Test Name	Matrix	Collection Date	Client Sample ID	Sample ID
9/20/0	9/20/01		GASOLINE RANGE ORGANICS	Soil	9/18/01	DLRP-SP-196	0109127-01A
9/24/0	9/18/01		VOLATHES by GC/MS, Medium-Level				
9/21/0	9/18/01		Volatile Petroleum Hydrocarbons				0109127-0113
9/20/0	9/20/01		ICP METALS, 3051/6010				0109127-01C
9/20/0	9/20/01		MERCURY, Soil				
9/20/0	9/20/01		ORGANOCHLORINE PESTICIDES				
9/20/0	9/20/01		PCBS IN SOIL/SOLIDS				
9/20/0			Percent Moisture				
9/21/0	9/20/01		SVOC + Pyridine, Soil/Solids				
9/21/0	9/20/01		DIESEL RANGE ORGANICS				0109127-01D
9/22/0	9/20/01		EPH, Soil, Full List				
9/20/0	9/20/01		GASOLINE RANGE ORGANICS			DLRP-SP-197	0109127-02A
9/24/0	9/18/01		VOLATILES by GC/MS, Medium-Level				
9/21/0	9/18/01		Volatile Petroleum Hydrocarbons				0109127-02B
9/20/0	9/20/01		ICP METALS, 3051/6010				0109127-02C
9/20/0	9/20/01		MERCURY, Soil				
9/20/0	9/20/01		ORGANOCHLORINE PESTICIDES				
9/20/0	9/20/01		PCBS IN SOIL/SOLIDS				
9/20/0			Percent Moisture				
9/21/0	9/20/01		SVOC + Pyridine, Soil/Solids				
9/21/0	9/20/01		DIESEL RANGE ORGANICS				0109127-02D
9/22/0	9/20/01		EPH. Soil, Full List				
9/20/0	9/20/01		GASOLINE RANGE ORGANICS			DLRP-SP-198	0109127-03A
9/25/0	9/18/01		VOLATILES by GC/MS, Medium-Level				
9/21/0	9/18/01		Volatile Petroleum Hydrocarbons				0109127-03B
9/20/0	9/20/01		ICP METALS, 3051/6010				0109127-03C
9/20/0	9/20/01		MERCURY, Soil				
9/22/0	9/20/01		ORGANOCHLORINE PESTICIDES				

Lab Order:

0109127

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Analysis Date	Prep Date	TCLP Date	Test Name	Matrix	Collection Date	Client Sample ID	Sample ID
9/21/01	9/20/01		ORGANOCHI ORINI PESTICIDES	Soil	9/18/01	DLRP-SP-198	0109127-030
9:20:04	9/20/01		PERS BESOIL/SOLIDS				
9/20201			Percent Moistine				
9/21/01	9/20/01		SVOC + Pytidine: Soil/Solids				
9/21/01	9/20/01		DIESTERANGE ORGANICS				0109127-031)
9/22/(/1	9/20/01		1 PH, Soil, Full List				
9/20/(()	9/20/01		GASOLINE RANGE ORGANICS			DLRP-SP-199	0109127-04A
0/2 (9) (9/18/01		VOLATHES by GC/MS, Medium-Level				
9/21/01	9/18/01		Volarile Petroleum Hydrocarbons				0109127-0413
$\mathfrak{G} \subset \{i, (i)\}$	9/20/01		1CP MILIALS, 3051/6010				0109127-04C
9×2(1)(1)	9/20/01		MERCURY, Soil				
0/21/(r)	9/20/01		ORGANOCHI ORINE PESTICIDES				
9/20/01	9/20/01		PCBS IN SOIL/SOLIDS				
9/20/01			Percent Moisture				
9/21/01	9/20/01		SVOR - Pyridine Soil/Solids				
9/21/01	9/20/01		DIESTERANGI ORGANICS				0109127-04D
9/22/01	9/20/01		1 PH Soil Full List				
9/20/01	9/20/01		GASOLINE RANGE ORGANICS			DLRP-SP-200	0109127-05A
9/24/01	9/18/01		VOLATILES by GC/MS, Medium-Level				
9/21/01	9/18/01		Volatile Petroleum Hydrocarbons				0109127-05B
9/20/01	9/20/01		ICP METALS, 3054/6010				0109127-05C
9/20/01	9/20/01		MERCURY, Soil				
9/21/01	9/20/01		ORGANOCHI ORINE PESTICIDES				
9/20/01	9/20/01		PC BS IN SOIL/SOI IDS				
9/20/01			Percent Almisture				
9/21/01	9/20/01		SVOC + Pyridine, Soul/Solids				
9/21/01	9/20/01		DIPALL RANGE ORGANICS				0109127-051)
9/22/01	9/20/01		TPIT Soil Tull List				

26-Sep-01

A CO Environmental Laboratories Corp.

Lab Order:

0109127

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Sample ID	Client Sample 1D	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0109127-06A	TRIP BLANK	9/18/01	Soil	VOLATILES by GC/MS, Medium-Level		9/18/01	9/24/01

111 Herrick Street Merrimack, NH 03054

(603) 424-2022 Client: STONE & WEBSTER AMRO ID: Project Name: 0085/1000 DEVENS Date Rec.: Ship via: (circle one) Fed Ex., UPS (AMRO Couner, Date Due: Hand Del., Other Courier, Other Items to be Checked Upon Receipt NA Comments Army Samples received in individual plastic bags? 2. Custody Seals present? 3. Custody Seals Intact? 4. Air Bill included in folder if received? 5. Is COC included with samples? 6. Is COC signed and dated by client? Laboratory receipt temperature. Samples rec. with ice Vice packs neither 8. Were samples received the same day they were sampled? Is client temperature 4°C ± 2°C? If no obtain authorization from the client for the analyses. Client authorization from: Obtained by: Date: 9. Is the COC filled out correctly and completely? 10. Does the info on the COC match the samples? 11. Were samples rec, within holding time? 12. Were all samples properly labeled? 13. Were all samples properly preserved? 14. Were proper sample containers used? 15. Were all samples received intact? (none broken or leaking) 16. Were VOA vials rec. with no air bubbles? 17. Were the sample volumes sufficient for requested analysis? 18. Were all samples received? 19. VPH and VOA Soils only: Sampling Method VPH (circle one); (M=Methanol, E=EnCore (air-tight container) Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk If M or SB: Does preservative cover the soil? If NO then client must be faxed. Does preservation level come close to the fill line on the vial? If NO then client must be faxed, Were vials provided by AMRO? If NO then weights MUST be obtained from client Was dry weight aliquot provided? If NO then fax client and inform the VOA lab ASAP. 20. Subcontracted Samples: What samples sent: Where sent: Date: Analysis: TAT: 21. Information entered into: Internal Tracking Log? Dry Weight Lag? Client Log? Composité Log? Filtration Log? Received By: MG Date: 9_14-01 Logged in By: Labeled By: 146 Date: O Checked Sv:

CHAIN-OF-CUSTODY RECORD

411398

Office: (603) 424-2022 Fax: (603) 429-8496

Project No.: 67 - 6 100	Project Name:	1	t 3-13.53 - 1			Project Manager:			Samplers (Signature):			\$	AMRO Project No.:				
	Project State:	Project State:															
Sample ID	Date/Time	Matrix	Total #			'				Analy	sis Re	quir	ired				Remarks
	Sampled	A= Air S= Soil GW= Ground W. WW= Waste W. DW= Drinking W. O= Oil Other= Specify	of Cont. & Size	1,12,12	2005		358516,0005	\int_{T}^{T}	** *** V)	150	460						* Greenele Frimings
1211-56 ME	1/1/2 1450		1 for	3/	74	V	1.2										MEIAIGE SOST/EMP
Place Processing	the the se	1	1 4/72						.0								SIDC 3210
N. 1. 1. 24 - 1. (1)	ist water		- 10 pt														10.82 - BOBZ
Lat Le Bar of the	101 4 1 7	É	* 1								0 1						11 4 114
40 08 0	1 1		3.1														yes Posts
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in a rest	1																1
$T^{i}(\cdot) = T^{i}$	i j x	Ų į	:														1 0
18 11 18 18																	43101A
1. 88 X	*t, * -	ļ															
Preservative: CI-HCl, MeOH, N-				4-1													
Container Type: P- Plastic, G-Gl																	
Please print clearly, legibly and logged in and the turnaround ti ambiguities are resolved.		Transfer of the second of the	FAX No.:							NOTE	ES: Pre	serva	tives, Spe	cial repo	orting limi	is, Knov	vn Contamination, etc;
Send Results To:																	
										Seal In	itact?		GW-I	_	GW-2	-	GW-3
										Ves	No I	N/A	MCP L	evel Nee	ded:		
Relinquished By	Date/ Time	Re	ceived By			1	Date/1	Time		P.O. N	o:			11.			
	. Ye	"								PRIORITY TURNAROUND TIM Before submitting samples for experimental samp		PRIORIT Before sub	Y TURN mitting :	NAROUNI samples for	TIME r expedit	AUTHORIZATION ed TAT, you must have requested	
									- 10			led TAT	AUTHORIZATION NUMBER BY:				
o						-	_								SHEET		OF
One: Lab Copy	Yellow: Accomp	oanies Report		Pink: 0	Client		y										

CHAIN-OF-CUSTODY RECORD

1()::[::+

Office: (603) 424-2022 Fax: (603) 429-8496

Project No.: Project Name:				Proj	ect Manager	*	Samplers (Signat		AMRO Project No.:	
	Project State:									
Sample ID	Date/Time	Matrix	Total#			Analysis Requir	ed		Remarks	
	Sampled	A= Air S= Soil GW= Ground W. WW= Waste W. DW= Drinking W. O= Oil Other= Specify	of Cont. & Size			41 F				
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Container Type: P- Plastic, G-G										
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Send Results To:							1			
·				******		Seal Intact?	GW-1 GW	-2	GW-3	
						Yes No N/A	MCP Level Needed:			
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The Commonwealth of Massachusetts



Department of Environmental Protection

Division of Environmental Analysis
Senator William X. Wall Experiment Station

certifies

M-NH012

AMRO ENVIRONMENTAL LAB 111 HERRICK ST MERRIMACK, NH 03054-0000

Laboratory Director: Nancy Stewart

for the analysis of NON POTABLE WATER (CHEMISTRY)
POTABLE WATER (CHEMISTRY)

pursuant to 310 CMR 42.00

This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.

This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.

Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.

Issued:

01 JUL 2001

Expires:

30 JUN 2002

Director, Division of Environmental Analysis

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of:

01 JUL 2001

M-NH012

AMRO ENVIRONMENTAL LAB

MERRIMACK NH

ON POTABLE WATER (CHEN	IISTRY)	Effective Date	01 JUL 2001	Expiration Date	30 JUN 2002
Anal	ytes and Methods	4.4		360	
ALUMINUM	EPA 200.7		NITRATE-N		EPA 353.2
ANTIMONY	EPA 200.7		KJELDAHL-N		EPA 351.1
ANTIMONY	EPA 204.2		KJELDAHL-N		EPA 351.2
ARSENIC	EPA 200.7		ORTHOPHOSPHATE		EPA 365.2
ARSENIC	EPA 206.2		ORTHOPHOSPHATE		EPA 300.0
ARSENIC	ASTM D2972-93	3(C)	TOTAL PHOSPHORUS		EPA 365.2
BERYLLIUM	EPA 200.7		CHEMICAL OXYGEN DE	MAND	EPA 410.4
CADMIUM	EPA 200.7		CHEMICAL OXYGEN DE	MAND	HACH METHOD 8000
CHROMIUM	EPA 200.7		BIOCHEMICAL OXYGEN	DEMAND	EPA 405.1
COBALT	EPA 200.7		TOTAL CYANIDE		EPA 335.2
COPPER	EPA 200.7		NON-FILTERABLE RESI	DUE	EPA 160.2
IRON	EPA 200.7		TOTAL RESIDUAL CHLO	ORINE	SM 4500-CL-G
LEAD	EPA 200.7		OIL AND GREASE		EPA 413.1
LEAD	EPA 239.2		TOTAL PHENOLICS		EPA 420.1
MANGANESE	EPA 200.7		VOLATILE HALOCARB	ONS	EPA 624
MERCURY	EPA 245.1		VOLATILE AROMATICS		EPA 624
MOLYBDENUM	EPA 200.7	7	CHLORDANE		EPA 608
VICKEL	EPA 200.7		ALDRIN		EPA 608
ELENIUM	EPA 200.7	~	DIELDRIN		EPA 608
SELENIUM	EPA 270.2		DDD		EPA 608
SILVER	EPA 200.7		DDT		EPA 608
STRONTIUM	EPA 200.7		HEPTACHLOR		EPA 608
THALLIUM	EPA 200.7		HEPTACHLOR EPOXIDE		EPA 608
THALLIUM	EPA 279.2		POLYCHLORINATED BI	PHENYLS (WATER)	EPA 608
ZINC	EPA 200.7		POLY CHLORINATED BI	PHENYLS (OIL)	EPA 600/4-81-045
PH	EPA 150.1				
SPECIFIC CONDUCTIVITY	EPA 120.1				
TOTAL DISSOLVED SOLIDS	EPA 160.1				
TOTAL HARDNESS (CACO3)	EPA 200.7				
CALCIUM	EPA 200.7				
MAGNESIUM	EPA 200.7				
SODIUM	SPA 200.7				
POTASSIUM	EPA 200.7				
TOTAL ALKALINITY	EPA 310.1				
CHLORIDE	EPA 325.3				
CHLORIDE	₽A 300.0				
FLUORIDE	€PA 340.2				
FLUORIDE	≅PA 300.0				
SULFATE	EPA 375.4				
SULFATE	EPA 300.0				
\MMONIA-N	EPA 350.2				
ITRATE-N	EPA 300.0				

COMMONWEALTH OF MASSACHUSEITS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of:

01 JUL 2001

M-NH012

AMRO ENVIRONMENTAL LAB

MERRIMACK NH

OTABLE WATER (CHEMISTRY)		Effective Date	01 JUL 2001	Expiration Date	30 JUN 2002
Analytes	and Methods				
ANTIMONY	EPA 200.9				
ARSENIC	EPA 200.7				
ARSENIC	EPA 200.9				
BARIUM	EPA 200.7				
BERYLLIUM	EPA 200.7		+		
CADMIUM	EPA 200.7				
CHROMIUM	EPA 200.7				
COPPER	EPA 200.7				
LEAD	EPA 200.9				
MERCURY	EPA 245.1				
NICKEL	EPA 200.7				
SELENIUM	EPA 200.9				
THALLIUM	EPA 200.9				
NITRATE-N	EPA 353.2	(<			
NITRITE-N	EPA 353.2				
FLUORIDE	EPA 300.0				
FLUORIDE	SM 4500-F-E				
SULFATE	EPA 300.0				
YANIDE	SM 4500-CN-C,I	Ε '			
URBIDITY	EPA 180.1				
RESIDUAL FREE CHLORINE	SM 4500-CL-G				
CALCIUM	EPA 200.7				
TOTAL DISSOLVED SOLIDS	SM 2540C				
PH	EPA 150.1				
1,2-DIBROMOETHANE	EPA 504.1				
1,2-DIBROMO-3-CHLOROPROPANE	EPA 504.1				

APPENDIX 13

Table 1 – MADEP Policy #COMM-97-001

Department of Environmental Protection Policy # COMM-97-001

TABLE 1
CONTAMINANT LEVELS FOR SOIL REUSE AT LANDFILLS

CONTAMINANT	Reuse Levels (mg/kg) ^a				
	Lined Landfills	Unlined Landfill			
Total Arsenic	. 40	40			
Total Cadmium	80	30			
Total Chromium	1,000	1,000			
Total Lead	2,000	1,000			
Total Mercury	10	10			
Total Petroleum Hydrocarbons (TPH)	5,000	2,500			
Total PCBs ^b	< 2	< 2			
Total SVOCs ^c	100	100			
Total VOCs ^d	10	4			
Conductivity ^e (umhos/cm)	8,000 umhos/cm	4,000 umhos/cm			
Listed or Characteristic Hazardous Waste (TCLP) ^f	NONE	NONE			

TABLE 1 NOTES:

- The reuse levels are expressed as total levels in mg/kg and apply to reuse of soil as daily cover, intermediate cover, and pre-capping contour material at lined landfills and unlined landfills as described in this Policy.
- b Total concentrations of polychlorinated biphenyls EPA Method 8080.
- c Total concentrations of compounds listed in EPA Method 8270.
- d Total concentration of compounds listed in EPA Method 8260.
- e For soil which may be expected to contain elevated NaCl.
- f TCLP testing shall be performed for metals or organic compounds when the total concentrations in the soil are above the theoretical levels at which the TCLP criteria may be exceeded. For guidance parties shall consult United States Environmental Protection Agency, Memorandum #36, "Notes on RCRA Methods and QA Activities", pp. 19-21, Gail Hanson, January 12, 1993.

[Please note that the methods specified in footnotes d, e, and f indicate the universe of chemicals to be added up in calculating the total concentrations for these classes of contaminants. Section 5.0 of this Policy provides guidance for determining which specific chemicals must be considered chemicals of concern (e.g., contaminants) within the soil. This Policy does not specify the analytical test methods to be used to quantify the specific contaminants. Readers can consult 310 CMR 40.0017 Environmental Sample Collection and Analysis, 310 CMR 30.110 Criteria, Procedures for Determining Which Wastes are to be Regulated as Hazardous Waste or Non-Hazardous Waste and 310 CMR 30.151 Representative Sampling Methods for additional information which may be applicable to the selection of appropriate sampling and analytical methods.]

APPENDIX 14 Barnum Road – PetroFlag Field Data



Date: 10/72/01		Calibration Tin
Operator: Len Rus	IJC	Calibration Ter
Location: BARNUN	L RUMD	

Calibration Time/Date: <u>CTIC / 10- 22-4-1</u>
Calibration Temperature: <u>19.4</u>

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF- B2-01	109	1000/10-2201	169	1	5	169	SIL
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 $^{^{1}}$ DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



Date: 16-13-61.
Operator: LAN /215
Location: BARNUM ROAD

Calibration Time/Date: 1120/10 23-01
Calibration Temperature: 1490

No.	Sample ID	Weight	Time/Date-	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	下-以-02	160	113	88:	1	5	€, €	Soil
2	3-365		1156	224	T.	5	284	SOIL
3	14.25 4		1/34	165	T.	Úi	, E,	SCIL
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 $^{^{\}dagger}DF$ = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

⁻RF = Response Factor, selected for the hydrocarpon committee



Date: 10-24-0 j.	Calibration Time/Date:	0910
Operator: Jay /25	Calibration Temperature:	
Location: BARNUM POAD		

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PE-BR-05	ion	0930	372	i	5	322	Sinc
2	PF-BR-06	10.8	0930	352	1	5	352	Exic
3	PF-52-07	109	0930	2.37	3	5	237	312
4	PF -BR - 08	10g	0930	250	Ĩ	5	252	- X
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 $^{^{1}}DF = Dilution$ Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



Date: 10/25/01	Calibration Time/Date:	0930
Operator: LBW / RUS	Calibration Temperature:	21.3C
Location: BARNING Page		

No.	Sample ID	Weight	Time/Date-	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-BR-09	109	0930	216	1	5	276	SOIL
2	PF-BR- 10	100	0930	706	I	5	706	SOIL
3	PF-BE-11	100	0930	30/	1	5	301	Soil
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 $^{^{\}circ}DF$ = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration)

PRF = Response Factor, selected for the hydrocarbon contents



Date:	10	126	101	
			L/RJS	3
				ROAD

Calibration Time/Date: 0920
Calibration Temperature: 1310

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-BZ-12	109	1000	435	į.	5	435	Soil
2	75-BR-13	109	1000	369	1	5	369	SOIL
3	PF-B2-14	iOg	1000	397	(5	397	Suc
4	PF-B2-15	100	1000	438	1	5	435	- City
5	PF-BR-16	109	1000	513	1	5	+5.73	Sin
1	FF-BD-17	109	1000	358	1	ニ	115	
7	PF-BR-12	_	1000	359	i	5	2	500
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¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

F USERS/PUBLIC/INSTRUCT Petriling/PFWRKSHT 602 Rev 6

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



Date: 19/29/01	Calibration Time/Date:	0935
Operator: Lam	Calibration Temperature:	18.9c
Location: Book of Para		

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-E2-19	109	1015	199	1	5	199	SOIL
2	PF-BC- 20	109	1015	195	1	5	195	Soil
3	PF-BL-21	(C)c	1015	254	i j	ıŭ.	254	Sou
4	75-55-32	160	1015	102	1	5	102	SOIL
5	et-62 25	100	1015	348		5	248	
	17 - 17 Jan - 20-24	10	1015	164		1.1	164	SOIL
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 $^{^{\}dagger}DF$ = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contaminant



Date: 10/30/01	Calibration Time/Date: 1515	
Operator: 134	Calibration Temperature: 23.1C	
I ocation: PAGE WAR PAGE		

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-BR-25	100	1530	336	(5	336	SOIL
2	2532-26	100	1530	336	Î ţ	5	242	SOIL
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 $^{^{1}}DF$ = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

F USERS PUBLICINSTRUCT Petrilag PFWRKSHT 002 Rev

FRF = Response Factor, selected for the hydrocarbon contamination at the site.



Date: 11/29/01	Calibration Time/Date: 14 365
Operator: LBM/RS	Calibration Temperature: E. C.
Location: BARNUM PEAD	

No.	Sample ID	Weight	Time/ Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-BR-27	100	1500	518	1	5	≒1£	SOIL
2	72-32-28	Illing	1500	326	1	5	3.26	SCIL
3	PF 52-24	159	1500	ico4-		5	الان	Sil
4	984502 - <u>76</u> 3	ILS	15-	15%		5	£ 5, 7	SCIL
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 $^{\circ}DF$ = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).



Date: 12/03/01	Calibration Time/Date: 0736
Operator: LBM/RS	Calibration Temperature: 13.9 C
Location: BARNUM ROAD	

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-BR-31	109	0800	867	1	5	867	Soil
2	PF-B2-32	109	1025	563	1	5	563	SOIL
3	PF-BR-33		1310	2012	1	5	2012	SOIL SOIL
4	PF-B2-34	100	1430	1552	1	15	1552	SOIL
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 $^{^{1}}DF = Dilution$ Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).



Date: 12 04 01	Calibration Time/Date: 0110
Date: 12 04 01 Operator: LBM/RIS	Calibration Temperature: 14.2 C
Location: BARNING ROOD	

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-BR-35	iog	0130	2050	1	5	2050	SOIL
2	PF-BR-36	100	1100	821	1	5	821	SOIL
3	PF-B2-37	109	1315	969	1	5	969	
4	PF 82-38		1430	497	1	5	497	SOIL
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¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



Date:	12	05	101	
Opera	itor:	LBR	1/PJ9	5
	2 10 10 10			7-00

Calibration Time/Date: 0830

Calibration Temperature: 16.9 C

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-B2-39	109	0930	865	1	5	865	SOIL
2	PF-BR-40	100	1100	768	1	5	768	Sal
3	PF-BR-41		1215	1020	1	5	1020	Soil
4	PF-B2-42	100	1330	635	1	5	635	SOIL
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¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.

F.\USERS\PUBLIC\INSTRUCT\Petrilag\PF\WRKS\HT.002 Rev 0



Date: 12/06/01	Calibration Time/Date: 0830	
Operator: LEM /JC	Calibration Temperature: 14.7 C	
Location: Brewon Roso		

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-BE-43	100	0915	225	1	5	225	Soil
2	PF-82-44	1	1040	465	1	5	465	SOIL
3	PF-B2-45		1210	417	1	5	417	SOIL
4	PF-BR-46		1350	694	t	5	694	SOIL
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¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



Date: 12/10/01	Calibration Time/Date: 0900
Operator: LBM /JC	Calibration Temperature: 12.04
Location: BARNUM PORD	

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-BR-47	109	0930	1136	1	5	1136	SOIL
2	PF-BE-AB	10%	1045	825	Ţ	5	825	SOIL
3	PF-B12-49	100	1350	1006	(5	1006	SOIL
4	PF-B2-50		1430	408	1	5	408	Soil
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¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.

APPENDIX 15

West Rail Stockpile Analytical Data



111 Herrick Street, Merrimack, NH 03054 TEL: (603) 424-2022 · FAX: (603) 429-8496

September 28, 2001

Jeffrey Shea Stone & Webster Construction Co. 45 Patton Road Ayer, MA 01432

TEL: (978) 784-0900 FAX: (978) 784-0999

RE: 068511000 Devens Landfill

Order No.: 0109150

Dear Jeffrey Shea:

AMRO Environmental Laboratories Corp. received 4 samples on 9/21/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of $\underline{+}\mathcal{E}$ pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely.

Nancy Stewart

Vice President / Lab Director

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Lab Order:

0109150

Date Received:

9/21/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0109150-01A	DLRP-SP-201	9/20/01
0109150-01B	DLRP-SP-201	9/20/01
0109150-01C	DLRP-SP-201	9/20/01
0109150-01D	DLRP-SP-201	9/20/01
0109150-02A	DLRP-SP-202	9/20/01
0109150-02B	DLRP-SP-202	9/20/01
0109150-02C	DLRP-SP-202	9/20/01
0109150-02D	DLRP-SP-202	9/20/01
0109150-03A	DLRP-SP-203	9/20/01
0109150-03B	DLRP-SP-203	9/20/01
0109150-03C	DLRP-SP-203	9/20/01
0109150-03D	DLRP-SP-203	9 20 01
0109150-04A	TRIP BLANK	9 20 01

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Lab Order:

0109150

CASE NARRATIVE

MADEP-EPH

1. Samples were received in clear jars. The method specifies amber jars.

PESTICIDE

1. The Endrin and Delta-BHC %difference (%D) in the opening Continuing Calibration Verification analyzed on 09/26/01 and 09/27/01 on instrument Trent exceeded the $\pm 15\%$ limit. The laboratory used the average percent difference for all analytes as per SW-846 Method 8081A Section 7.5. Please refer to the Continuing Calibration Summary Form in the Pesticide Section.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Lab Order:

0109150

Lab ID:	0109150-01			C	Collection Date:	9/20/01	
Client Sample ID:	DLRP-SP-201				Matrix:	SOIL	
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
OD METAL 6 TOTA							
CP METALS TOTA	L SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic		17	6.3		mg/Kg-dry	1	9/25/01 11:36:38 AM
Barium		ND	25		mg/Kg-dry	1	9/25/01 11:36:38 AM
Cadmium		ND	0.63		mg/Kg-ary	1	9/25/01 11:36:38 AM
Chromium		12	1.3		mg/Kg-dry	1	9/25/01 11:36:38 AM
Lead		20	3.1		mg/Kg-dry	1	9/25/01 11:36:38 AM
Selenium		ND	10		mg/Kg-dry	1	9/25/01 11:36:38 AM
Silver		ND	1.8		mg/Kg-dry	1	9/25/01 11:36:33 AM
MERCURY, 7471.4			SW7471A				Analyst: GM
Mercury		0.023	5.025		mg/k/g-ary	4	9/25/01
PERCENT MOIST	IRE		D2216				Analysi: JC
Percent Moisture		5,9	٥		WINS	À	9/24/01
Lab ID:	()10915()-()2			(Collection Date:	9 20 01	
Client Sample 1D:	DLRP-SP-202				Matrix:	SOIL	
Analyses		Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS TOTA	AL SW-846 - 3051/6010		SW6010B				Analyst: SJI
Arsenic		15	6.3		mg/Kg-dry	i	9/25/01 11 41:06 AM
Barium		26	25		mg/Kg-dry	1	9/25/01 11:41:06 AM
Cadmium		ND	0.63		mg/Kg-dry	1	9/25/01 11:41:06 AM
Chromium		16	1.3		mg/Kg-dry	1	9/25/01 11:41:06 AM
Lead		47	3.1		mg/Kg-dry	1	9/25/01 11:41:06 AM
Selenium		ND	10		mg/Kg-dry	1	9/25/01 11:41:06 AM
Silver		ND	1.8		mg/Kg-dry	1	9/25/01 11:41:06 AM
MERCURY, 7471A			SW7471A				Analyst: GN
MEROORI, 1411A							
Mercury		0.037	0.025		mg/Kg-dry	1	9/25/01
		0.037	0.025 D2216		mg/Kg-dry	1	9/25/01 Analyst: JC
Mercury		0.037			mg/Kg-dry	1	

Qualifiers:

ND - Not Detected at the : morting Limit

J - Analyte detected b

santitation limits

B - Analyte detected

ssociated Method Blank

* - Value exceeds Max - on Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 28-Sep-01

CLIENT: Project:

Stone & Webster Construction Co.

068511000 Devens Landfill

Lab Order:

0109150

Lab ID:

0109150-03

Collection Date: 9/20/01

4.07.20.00			~	onection Date	. ,,,,,,	
Client Sample ID: DLRP-SP-203				Matrix	: SOIL	
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: SJK
Arsenic	15	6.6		mg/Kg-dry	1	9/25/01 11:18:31 AM
Barium	ND	26		mg/Kg-dry	1	9/25/01 11:18:31 AM
Cadmium	ND	0.66		mg/Kg-dry	1	9/25/01 11:18:31 AM
Chromium	18	1.3		mg/Kg-dry	1	9/25/01 11:18:31 AM
Lead	47	3.3		mg/Kg-dry	1	9/25/01 11:18:31 AM
Selenium	ND	11		mg/Kg-dry	1	9/25/01 11:18:31 AM
Silver	ND	1.8		mg/Kg-dry	1	9/25/01 11:18:31 AM
MERCURY, 7471A		SW7471A				Analyst: GM
Mercury	0.041	0.028		mg/Kg-dry	1	9/25/01
PERCENT MOISTURE		D2216				Analyst: JC
Percent Moisture	6.3	0		wt%	1	9/24/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-201

Lab Order:

0109150

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-01A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 503	5 MEDIUM-LEVE	SW8260B				Analyst: S
Dichlorodifluoromethane	ND	59		µg/Kg-dry	1	9/25/01 3:31:00 PM
Chloromethane	ND	59		µg/Kg-dry	1	9/25/01 3:31:00 PM
Vinyl chloride	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Chloroethane	ND	59		µg/Kg-dry	1	9/25/01 3:31:00 PM
Bromomethane	ND	59		μg/Kg-dry	1	9/25/01 3:31:00 PM
Trichlorofluoromethans	ND	59		µg/Kg-dry	1	9/25/01 3:31:00 PM
Diethyl ether	ND	300		µg/Kg-dry	1	9/25/01 3:31:00 PM
Acetone	ND	300		ug/Kg-dry	1	9/25/01 3:31:00 PM
1.1-Dichloroethens	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Carbon disulfide	ND	59		µg/Kg-ary	1	9/25/01 3:31:00 PM
Methylene chloride	ND	59		µg/Kg-dry	1	9/25/01 3:31:00 PM
Methyl tert-butyl etner	ND	30		µg/Kg-arv	+	9/25/01 3:31:00 PM
trans-1,2-Dichloroetrans	ND	30		ug/Kg-dry	1	9/25/01 3:31:00 PM
1,1-Dichloroethane	ND	30		µg/Kg-ary	¥.	9/25/01 3:31:00 PM
Tertiary Butanol	ND	3,000		µg/Kg-ary	1	9/25/01 3:31:00 PM
2-Butanone	ND	300		ug/Kg-ary	4	9/25/01 3:31:00 PM
Diisopropyl ether	ND	59		µg/Kg-ary	+	9/25/01 3:31:00 PM
2.2-Dichloropropane	ND	30		ug/Kg-dry	1	9/25/01 3:31:00 PM
cis-1,2-Dichloroetnene	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Ethyl Tertiary Butyl Einer	ND	59		µg/Kg-dry	4	9/25/01 3.31:00 PM
Chloroform	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Tetrahydrofuran	ND	300		μg/Kg-dry	1	9/25/01 3:31:00 PM
Bromochloromethane	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
1,1,1-Trichloroethane	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
1,1-Dichloropropene	ND	30		μg/Kg-dry	1	9/25/01 3:31:00 PM
Carbon tetrachloride	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
1,2-Dichloroethane	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Benzene	99	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Trichloroethene	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
1,2-Dichloropropane	ND	30		μg/Kg-dry	1	9/25/01 3:31:00 PM
Bromodichloromethane	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
Dibromomethane	ND	30		μg/Kg-dry	1	9/25/01 3:31:00 PM
Tertiary Amyl Methyl Ether	ND	59		μg/Kg-dry	1	9/25/01 3:31:00 PM
4-Methyl-2-pentanone	ND	300		μg/Kg-dry	1	9/25/01 3:31:00 PM
cis-1,3-Dichloropropene	ND	30		μg/Kg-dry	1	9/25/01 3:31:00 PM
Toluene	450	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
trans-1,3-Dichloropropene	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM
1,1,2-Trichloroethane	ND	30		µg/Kg-dry	1	9/25/01 3:31:00 PM

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01A

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
2-Hexanone	ND	300	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,3-Dichloropropane	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Tetrachloroethene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Dibromochloromethane	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Chlorobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,1,1,2-Tetrachloroethane	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Ethylbenzene	55	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
m,p-Xylene	420	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
o-Xylene	220	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Styrene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Bromoform	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
İsopropyibenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1.1.2.2-Tetrachloroethane	ND	30	µg/Kg-dry	1	9/25/01 3:31:00 PM
1.2.3-Trichloropropane	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Bromobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
n-Propyibenzene	34	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
2-Chlorotoluene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
4-Chlorotoluene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1.3.5-Trimethylbenzene	43	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
tert-Butylbenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,2,4-Trimethylbenzene	150	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
sec-Butylbenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
4-Isopropyltoluene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,3-Dichlorobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1.4-Dichlorobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
n-Butylbenzene	ND	30	µg/Kg-dry	1	9/25/01 3:31:00 PM
1.2-Dichlorobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,2-Dibromo-3-chloropropane	ND	59	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,2,4-Trichlorobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Hexachlorobutadiene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM
Naphthalene	340	59	μg/Kg-dry	1	9/25/01 3:31:00 PM
1,2,3-Trichlorobenzene	ND	30	μg/Kg-dry	1	9/25/01 3:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-202

Lab Order:

0109150

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-02A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
OLATILES BY GC/MS, EPA 503	5 MEDIUM-LEVE	SW8260B				Analyst: SI
Dichlorodifluoromethane	ND	43		ug/Kg-dry	4	9/25/01 4:07:00 PM
Chloromethane	ND	43		µg/Kg-dry	1	9/25/01 4:07:00 PM
Vinyl chloride	ND	21		µg/Kg-dry	1	9/25/01 4 07:00 PM
Chloroethane	ND	43		µg/Kg-dry	1	9/25/01 4:07:00 PM
Bromomethane	ND	43		µg/Kg-dry	1	9/25/01 4:07:00 PM
Trichlorofluoromethane	ND	43		µg/Kg-dry	1	9/25/01 4:07:00 PM
Diethyl ether	ND	210		μg/Kg-dry	1	9/25/01 4:07:00 PM
Acetone	ND	210		ug/Kg-dry	1	9/25/01 4:07:00 PM
1.1-Dichloroethene	ND	21		µg/Kg-ary	4	9/25/01 4 07 CO PM
Carbon disulfide	ND	43		µg/Kg-dry	1	9/25/01 4:07:00 PM
Methylene chloride	ND	43		ug/Kg-dr/	1	9/25/01 4.07.00 PM
Methyl tert-butyl ether	ND	21		µg/Kg-dry	1	9/25/01 4 07 00 PM
trans-1,2-Dichloroethene	ND	21		μg/Kg-dn/	1	9/25/01 4:07:00 PM
1,1-Dichloroethane	ND	21		µg/Kg-ary	1	9/25/01 4:07:00 PM
Tertiary Butanol	ND	2,100		µg/Kg-ary	1	9/25/01 4 07 C0 PM
2-Butanone	ND	210		µg/Kg-ary	1	9/25/01 4:07:00 PM
Diisopropyl ether	ND	43		μg/Kg-dry	1	9/25/01 4:07:00 PM
2,2-Dichloropropane	ND	21		µg/Kg-ary	1	9/25/01 4:07:00 PM
cis-1,2-Dichloroethene	ND	21		µg/Kg-ary	1	9/25/01 4 07 00 PM
Ethyl Tertiary Butyl Ether	ND	43		μg/Kg-dry	1	9/25/01 4:07:00 PM
Chloroform	ND	21		μg/Kg-dry	4	9/25/01 4:07:00 PM
Tetrahydrofuran	ND	210		μg/Kg-dry	1	9/25/01 4.07:00 PM
Bromochloromethane	ND	21		µg/Kg-dry	9	9/25/01 4.07:00 PM
1,1,1-Trichloroethane	ND	21		μg/Kg-dry	1	9/25/01 4:07.00 PM
1,1-Dichloropropene	ND	21		µg/Kg-dry	1	9/25/01 4:07:00 PM
Carbon tetrachloride	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
1,2-Dichloroethane	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
Benzene	ND	21		μg/Kg-dry	4	9/25/01 4:07:00 PM
Trichloroethene	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
1,2-Dichloropropane	ND	21		µg/Kg-dry	1	9/25/01 4:07:00 PM
Bromodichloromethane	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
Dibromomethane	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
Tertiary Amyl Methyl Ether	ND	43		μg/Kg-dry	1	9/25/01 4:07:00 PM
4-Methyl-2-pentanone	ND	210		μg/Kg-dry	1	9/25/01 4:07:00 PM
cis-1,3-Dichloropropene	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
Toluene	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
trans-1,3-Dichloropropene	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM
1,1,2-Trichloroethane	ND	21		μg/Kg-dry	1	9/25/01 4:07:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-02A

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	21	μg/Kg-dr	y 1	9/25/01 4:07:00 PM
2-Hexanone	ND	210	μg/Kg-dr		9/25/01 4:07:00 PM
1,3-Dichloropropane	ND	21	μg/Kg-dr	y 1	9/25/01 4:07:00 PM
Tetrachloroethene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Dibromochloromethane	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Chlorobenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1,1,1,2-Tetrachloroethane	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Ethylbenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
m,p-Xylene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
o-Xylene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Styrene	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
Bromoform	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
Isopropyibenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1.1,2,2-Tetrachloroethane	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1,2,3-Trichloropropane	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Bromobenzene	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
n-Propylbenzene	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
2-Chlorotoluene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
4-Chlorotoluene	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
1 3,5-Trimethylbenzene	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
tert-Butylbenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1.2.4-Trimethylbenzene	ND	21	µg/Kg-dr		9/25/01 4:07:00 PM
sec-Butylbenzene	ND	21	µg/Kg-dr	y 1	9/25/01 4:07:00 PM
4-Isopropyltoluene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1,3-Dichlorobenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1.4-Dichlorobenzene	ND	21	µg/Kg-dr		9/25/01 4:07:00 FM
n-Butylbenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1,2-Dichlorobenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
1,2-Dibromo-3-chloropropane	ND	43	μg/Kg-dr		9/25/01 4:07:00 PM
1,2,4-Trichlorobenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Hexachlorobutadiene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM
Naphthalene	62	43	μg/Kg-dr		9/25/01 4:07 00 PM
1,2,3-Trichlorobenzene	ND	21	μg/Kg-dr		9/25/01 4:07:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Mortand Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

CLIENT:

Stone & Webster Construction Co.

Lab Order: 0109150

Project: 068511000 Devens Landfill

Lab ID:

0109150-03A

Date: 28-Sep-01

Client Sample ID: DLRP-SP-203

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Re	sult	RL	Qual	Units	DF	Date Analyzed
OLATILES I	BY GC/MS, EPA 5035 MEDIUM-L	EVE	SW8260B				Analyst: Sh
Dichlorodifluo	promethane	ND	58		μg/Kg-dry	1	9/25/01 4:43:00 PM
Chloromethar	ne	ND	58		µg/Kg-ary	1	9/25/01 4:43:00 PM
Vinyl chloride		ND	29		μg/Kg-dry	1	9/25/01 4:43:00 PM
Chloroethane		ND	58		µg/Kg-dry	1	9/25/01 4:43:00 PM
Bromomethar	ne	ND	58		μg/Kg-dry	1	9/25/01 4:43:00 PM
Trichlorofluore	omethane	ND	58		μg/Kg-dry	+	9/25/01 4:43:00 PM
Diethyl ether		ND	290		µg/Kg-dry	1	9/25/01 4:43:00 PM
Acetone		ND	290		µg/Kg-dry	1	9/25/01 4:43:00 PM
1,1-Dichloroe	thene	ND	29		μg/Kg-dry	4	9/25/01 4:43:00 PM
Carbon disulf	īde	ND	58		µg/Kg-dry	*	9/25/01 4:43:00 PM
Methylene ch	loride	ND	58		µg/Kg-ary	1	9/25/01 4:43:00 PM
Methyl tert-bu	utyl ether	ND	29		μg/Kg-dry	4	9/25/01 4 43:00 PM
trans-1,2-Dich	hloroethere	ND	29		ug/Kg-ary	-1	9/25/01 4:43:00 PM
1.1-Dichloroe	thane	ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Tertiary Butar	nol	ND	2,900		µg/Kg-dry	1:	9/25/01 4:43:00 PM
2-Butanone		ND	290		µg/Kg-ary	†	9/25/01 4:43:00 PM
Diisopropyl et	ther	ND	58		µg/Kg-ary	1	9/25/01 4:43:00 PM
2,2-Dichlorop	ropane	ND	29		ug/Kg-dry	1	9/25/01 4:43:00 PM
cis-1,2-Dichlo	proethene	ND	29		ug/Kg-dry	1	9/25/01 4:43:00 PM
Ethyl Tertiary	Butyl Ether	ND	58		µg/Kg-dry	4	9/25/01 4 43.00 PM
Chloroform		ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Tetrahydrofur	ran	ND	290		µg/Kg-ary	1	9/25/01 4:43:00 PM
Bromochloror	methane	ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
1,1,1-Trichlor	oethane	ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
1,1-Dichlorop		ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Carbon tetrac	chloride	ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
1,2-Dichloroe	thane	ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Benzene		ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Trichloroethe		ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
1,2-Dichlorop		ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Bromodichlor		ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Dibromometh	Will Edition of the Control of the C	ND	29		μg/Kg-dry	1	9/25/01 4:43:00 PM
Tertiary Amyl		ND	58		µg/Kg-dry	1	9/25/01 4:43:00 PM
4-Methyl-2-pe		1D	290		µg/Kg-dry	1	9/25/01 4:43:00 PM
cis-1,3-Dichlo	propropene	1D	29		μg/Kg-dry	1	9/25/01 4:43:00 PM
Toluene		36	29		μg/Kg-dry	1	9/25/01 4:43:00 PM
		ND	29		μg/Kg-dry	1	9/25/01 4:43:00 PM
1,1,2-Trichlor	oethane	ND	29		µg/Kg-dry	1	9/25/01 4:43:00 PM
Qualifiers:	ND - Not Detected at the Reporting	mit		3	S - Spike Recove	ery outside acco	epted recovery limits
	J - Analyte detected below quantition	n lim	its	1	R - RPD outside	accepted recov	ery limits
	B - Analyte detected in the $a_{\rm EM}$.	Meth	iod Blank	I	E - Value above	quantitation ra	nge
	H - Method prescribed harding	_xceed	led	9	- See Case Na	rrative	
	RL - Reporting Limit; defined as	lowes	t concentration	the labor	ratory can accura	ately quantitate	

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-203

Lab Order:

0109150

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-03A

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
1,2-Dibromoethane	ND	29	μg/Kg-d	iry 1	9/25/01 4:43:00 PM
2-Hexanone	ND	290	μg/Kg-c	ry 1	9/25/01 4:43:00 PM
1,3-Dichloropropane	ND	29	μg/Kg-c		9/25/01 4:43:00 PM
Tetrachloroethene	ND	29	µg/Kg-c	lry 1	9/25/01 4:43:00 PM
Dibromochloromethane	ND	29	μg/Kg-c	lry 1	9/25/01 4:43:00 PM
Chlorobenzene	ND	29	μg/Kg-c	lry 1	9/25/01 4:43:00 PM
1.1,1,2-Tetrachloroethane	ND	29	μg/Kg-c	lry 1	9/25/01 4:43:00 PM
Ethylbenzene	ND	29	μg/Kg-c	iry 1	9/25/01 4:43:00 PM
m.p-Xylene	40	29	μg/Kg-c	lry 1	9/25/01 4:43:00 PM
o-Xylene	33	29	μg/Kg-c		9/25/01 4:43:00 PM
Styrene	ND	29	μg/Kg-c	dry 1	9/25/01 4:43:00 PM
Bromoform	ND	29	μg/Kg-c		9/25/01 4:43:00 PM
Isopropylbenzene	ND	29	μg/Kg-c	dry 1	9/25/01 4:43:00 PM
1.1.2.2-Tetrachloroethane	ND	29	μg/Kg-c	dry 1	9/25/01 4:43:00 PM
1.2.3-Trichloropropane	ND	29	µg/Kg-c	dry 1	9/25/01 4:43:00 PM
Bromobenzene	ND	29	μg/Kg-c	dry 1	9/25/01 4:43:00 PM
n-Propylbenzene	ND	29	μg/Kg-c	dry 1	9/25/01 4:43:00 PM
2-Chlorotoluene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
4-Chlorotoluene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1.3,5-Trimethylbenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
tert-Butylbenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1.2,4-Trimethylbenzene	ND	29	µg/Kg-	dry 1	9/25/01 4:43:00 PM
sec-Butylbenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
4-Isopropyltoluene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1,3-Dichlorobenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1.4-Dichlorobenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
n-Butylbenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1.2-Dichlorobenzene	ND	29	µg/Kg-	dry 1	9/25/01 4:43:00 PM
1,2-Dibromo-3-chloropropane	ND	58	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1.2,4-Trichlorobenzene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
Hexachlorobutadiene	ND	29	μg/Kg-	dry 1	9/25/01 4:43:00 PM
Naphthalene	87	58	μg/Kg-	dry 1	9/25/01 4:43:00 PM
1,2,3-Trichlorobenzene	ND	29	µg/Кg-	dry 1	9/25/01 4:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: TRIP BLANK

Lab Order:

0109150

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-04A

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 5035	MEDIUM-LEVE	SW8260B			Analyst: Si
Dichlorodifluoromethane	ND	50	μg/Kg	1	9/25/01 2:54:00 PM
Chloromethane	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
Vinyl chloride	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
Chloroethane	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
Bromomethane	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
Trichlorofluoromethane	ND	50	μg/Kg	1	9/25/01 2:54:00 PM
Diethyl ether	ND	250	µg/Kg	1	9/25/01 2:54:00 PM
Acetone	ND	250	µg/Kg	1	9/25/01 2:54:00 PM
1,1-Dichloroethene	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
Carbon disulfide	53	50	µg/Kg	1	9/25/01 2:54:00 PM
Methylene chloride	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
Methyl tert-butyl ether	ND	25	ид/Ка	1	9/25/01 2:54:00 PM
trans-1,2-Dichloroethene	ND	25	μg/Kg	1	9/25/01 2:54 00 PM
1,1-Dichloroethane	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
Tertiary Butanol	ND	2,500	µg/Kg	1	9/25/01 2:54:00 PM
2-Butanone	ND	250	µg/Kg	1	9/25/01 2:54 00 FM
Diisopropyl ether	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
2,2-Dichloropropane	ND	25	µg/Kg	1	9/25/01 2:54 00 PM
cis-1,2-Dichloroethene	ND	25	μg/Kg	1	9/25/01 2:54 00 PM
Ethyl Tertiary Butyl Ether	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
Chloroform	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
Tetrahydrofuran	ND	250	μg/Kg	1	9/25/01 2:54:00 PM
Bromochloromethane	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
1,1,1-Trichloroethane	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
1,1-Dichloropropene	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
Carbon tetrachloride	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
1,2-Dichloroethane	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
Benzene	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
Trichloroethene	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
1,2-Dichloropropane	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
Bromodichloromethane	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
Dibromomethane	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
Tertiary Amyl Methyl Ether	ND	50	µg/Kg	1	9/25/01 2:54:00 PM
4-Methyl-2-pentanone	ND	250	μg/Kg	1	9/25/01 2:54:00 PM
cis-1,3-Dichloropropene	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
Toluene	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
trans-1,3-Dichloropropene	ND	25	μg/Kg	1	9/25/01 2:54:00 PM
1,1,2-Trichloroethane	ND	25	µg/Kg	1	9/25/01 2:54:00 PM
Qualifiers: ND - Not Detected a	at the Reporting Limit		S - Snile Page	very outside and	cepted recovery limits
		4		e accented reco	
1 - Analyte detected	below appritation lin	2110	R - RPD outsid	e accepted reco	very limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed ; oiding time exceeded

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-04A

Client Sample ID: TRIP BLANK

Collection Date: 9/20/01

Matrix: SOIL

nalyses	Result	RL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	25		μg/Kg	- 1	9/25/01 2:54:00 PM
2-Hexanone	ND	250		μg/Kg	1	9/25/01 2:54:00 PM
1,3-Dichloropropane	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
Tetrachloroethene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
Dibromochloromethane	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
Chlorobenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
1,1,1,2-Tetrachloroethane	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
Ethylbenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
m,p-Xylene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
o-Xylene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
Styrene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
Bromoform	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
Isopropylbenzene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
1.1.2.2-Tetrachloroethane	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
1.2,3-Trichloropropane	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
Bromobenzene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
n-Propylbenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
2-Chlorotoluene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
4-Chlorotoluene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
1.3.5-Trimethylbenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
tert-Butylbenzene	ND	25		µg/Кg	1	9/25/01 2:54:00 PM
1.2,4-Trimethylbenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
sec-Butylbenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
4-Isopropyltoluene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
1,3-Dichlorobenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
1,4-Dichlorobenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
n-Butylbenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
1,2-Dichlorobenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	1	9/25/01 2:54:00 PM
1.2,4-Trichlorobenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM
Hexachlorobutadiene	ND	25		µg/Kg	1	9/25/01 2:54:00 PM
Naphthalene	ND	50		μg/Kg	1	9/25/01 2:54:00 PM
1,2,3-Trichlorobenzene	ND	25		μg/Kg	1	9/25/01 2:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01A

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS (MODIFIED 8260B SV	V8260B				Analyst: SK
Gasoline Range Organics	12	3.0		mg/Kg-dry	1	9/28/01 12:11:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

Analyses

0109150-02A

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

GASOLINE RANGE ORGANICS (MODIFIED 8260B SW8260B

Analyst: SK

Gasoline Range Organics

ND

Result

2.1

RL Qual Units

mg/Kg-dry

1

DF

9/26/01 6:05:00 PM

Date Analyzed

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT: Lab Order: Stone & Webster Construction Co.

0109150

Project: Lab ID: 068511000 Devens Landfill

0109150-03A

Client Sample ID: DLRP-SP-203

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS	(MODIFIED 8260B SV	V8260B				Analyst: SK
						T. C. STORY STORY

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01C

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	SV	V8270C			Analyst: KD
Pyridine	ND	520	μg/Kg-dry	1	9/26/01 5:12:00 PM
N-Nitrosodimethylamine	ND	520	μg/Kg-dry	1	9/26/01 5:12:00 PM
Phenol	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Bis(2-chloroethyl)ether	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
2-Chlorophenol	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
1,3-Dichlorobenzene	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
1,4-Dichlorobenzene	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Benzyl alcohol	ND	520	μg/Kg-dry	1	9/26/01 5:12:00 PM
2-Methylphenol	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
1,2-Dichlorobenzene	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Bis(2-chloroisopropyl)ether	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
4-Methylphenol	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
N-Nitrosodi-n-propylamine	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Hexachloroethane	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Nitrobenzene	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
Isophorone	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
2,4-Dimethylphenol	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Benzoic acid	ND	520	μg/Kg-dry	1	9/26/01 5:12:00 PM
2-Nitrophenol	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
Bis(2-chloroethoxy)methane	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
2,4-Dichlorophenol	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
1.2,4-Trichlorobenzene	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Naphthalene	360	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
4-Chloroaniline	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
Hexachlorobutadiene	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
4-Chloro-3-methylphenol	ND	520	µg/Kg-dry	1	9/26/01 5:12:00 PM
2-Methylnaphthalene	340	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Hexachlorocyclopentadiene	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
2,4,6-Trichlorophenol	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
2,4,5-Trichlorophenol	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
2-Chloronaphthalene	ND	260	µg/Kg-dry	1	9/26/01 5:12:00 PM
2-Nitroaniline	ND	520	μg/Kg-dry	1	9/26/01 5:12:00 PM
Dimethyl phthalate	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
2,6-Dinitrotoluene	ND	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
Acenaphthylene	530	260	μg/Kg-dry	1	9/26/01 5:12:00 PM
3-Nitroaniline	ND	520	μg/Kg-dry	1	9/26/01 5:12:00 PM
4-Nitrophenol	ND	520	µg/Kg-dry	1	9/26/01 5:12:00 PM
2,4-Dinitrophenol	ND	520	µg/Kg-dry	1	9/26/01 5:12:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01C

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual 1	Units	DF	Date Analyzed
Acenaphthene	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
2,4-Dinitrotoluene	ND	260		ug/Kg-dry	1	9/26/01 5:12:00 PM
Dibenzofuran	ND	260		ug/Kg-dry	*1	9/26/01 5:12:00 PM
Diethyl phthalate	ND	260		ug/Kg-dry	1	9/26/01 5:12:00 PM
4-Chlorophenyl phenyl ether	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Fluorene	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
4-Nitroaniline	ND	520		µg/Kg-dry	1	9/26/01 5:12:00 PM
4,6-Dinitro-2-methylphenol	ND	520		µg/Kg-dry	1	9/26/01 5:12:00 PM
N-Nitrosodiphenylamine	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
4-Bromophenyl phenyl ether	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Hexachlorobenzene	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Pentachlorophenol	ND	520		µg/Kg-dry	1	9/26/01 5:12:00 PM
Phenanthrene	1,200	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Anthracene	620	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Carbazole	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Di-n-butyl phthalate	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Fluoranthene	4,400	260		μg/Kg-dry	1	9/26/01 5:12:00 PM
Benzidine	ND	260		μg/Kg-dry	1	9/26/01 5:12:00 PM
Pyrene	3.700	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Butyl benzyl phthalate	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Bis(2-ethylhexyl)phthalate	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
3,3'-Dichlorobenzidine	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Benz(a)anthracene	2.300	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Chrysene	2.400	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Di-n-octyl phthalate	ND	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Benzo(b)fluoranthene	3,200	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Benzo(k)fluoranthene	1.200	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Benzo(a)pyrene	1.900	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Dibenz(a,h)anthracene	430	260		µg/Kg-dry	1	9/26/01 5:12:00 PM
Indeno(1,2,3-cd)pyrene	1.500	260		μg/Kg-dry	1	9/26/01 5:12:00 PM
Benzo(g,h,i)perylene	1.200	260		µg/Kg-dry	1	9/26/01 5:12:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantition limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-02C

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	S	W8270C			Analyst: KI
Pyridine	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
N-Nitrosodimethylamine	ND	510	μg/Kg-dry	1	9/26/01 5:44:00 PM
Phenol	ND	260	µg/Kg-dry	4	9/26/01 5:44:00 PM
Bis(2-chloroethyl)ether	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
2-Chlorophenol	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
1,3-Dichlorobenzene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
1,4-Dichlorobenzene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Benzyl alcohol	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
2-Methylphenol	ND	260	µg/Kg-dry	.1	9/26/01 5:44:00 PM
1,2-Dichlorobenzene	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Bis(2-chloroisopropyl)ether	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
4-Methylphenol	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
N-Nitrosodi-n-propylamine	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Hexachloroethane	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Nitrobenzene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Isophorone	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
2,4-Dimethylphenol	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Benzoic acid	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
2-Nitrophenol	ND	260	µg/Kg-dry	3	9/26/01 5:44:00 PM
Bis(2-chloroethoxy)methane	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
2.4-Dichlorophenol	ND	260	µg/Kg-dry	3	9/26/01 5:44:00 PM
1,2,4-Trichlorobenzene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Naphthalene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
4-Chloroaniline	ND	260	µg/Kg-dry	4	9/26/01 5:44:00 PM
Hexachlorobutadiene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
4-Chloro-3-methylphenol	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
2-Methylnaphthalene	ND	260	µg/Kg-dry	3:	9/26/01 5:44:00 PM
Hexachlorocyclopentadiene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
2,4,6-Trichlorophenol	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
2,4,5-Trichlorophenol	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
2-Chloronaphthalene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
2-Nitroaniline	ND	510	μg/Kg-dry	1	9/26/01 5:44:00 PM
Dimethyl phthalate	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
2,6-Dinitrotoluene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Acenaphthylene	370	260	µg/Kg-dry	4	9/26/01 5:44:00 PM
3-Nitroaniline	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
4-Nitrophenol	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
2,4-Dinitrophenol	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

1 - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-02C

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
Acenaphthene	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
2,4-Dinitrotoluene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Dibenzofuran	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Diethyl phthalate	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
4-Chlorophenyl phenyl ether	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Fluorene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
4-Nitroaniline	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
4,6-Dinitro-2-methylphenol	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
N-Nitrosodiphenylamine	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
4-Bromophenyl phenyl ether	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Hexachlorobenzene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Pentachlorophenol	ND	510	µg/Kg-dry	1	9/26/01 5:44:00 PM
Phenanthrene	380	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Anthracene	320	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Carbazole	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Di-n-butyl phthalate	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Fluoranthene	1,700	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Benzidine	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Pyrene	1,600	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Butyl benzyl phthalate	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Bis(2-ethylhexyl)phthalate	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
3,3°-Dichlorobenzidine	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Benz(a)anthracene	800	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Chrysene	1,200	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Di-n-octyl phthalate	ND	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Benzo(b)fluoranthene	1,800	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Benzo(k)fluoranthene	530	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Benzo(a)pyrene	890	260	μg/Kg-dry	1	9/26/01 5:44:00 PM
Dibenz(a,h)anthracene	ND	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Indeno(1,2,3-cd)pyrene	810	260	µg/Kg-dry	1	9/26/01 5:44:00 PM
Benzo(g,h,i)perylene	700	260	µg/Kg-dry	1	9/26/01 5:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT: Lab Order: Stone & Webster Construction Co.

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-03C

Client Sample ID: DLRP-SP-203

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	sv	/8270C			Analyst: KD
Pyridine	ND	530	μg/Kg-dry	1	9/26/01 6:15:00 PM
N-Nitrosodimethylamine	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM
Phenol	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Bis(2-chloroethyl)ether	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
2-Chlorophenol	ND	270	µg/Kg-dry	4	9/26/01 6:15:00 PM
1,3-Dichlorobenzene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
1,4-Dichlorobenzene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Benzyl alcohol	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM
2-Methylphenol	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
1,2-Dichlorobenzene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Bis(2-chloroisopropyl)ether	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
4-Methylphenol	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
N-Nitrosodi-n-propylamine	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Hexachloroethane	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Nitrobenzene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Isophorone	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
2,4-Dimethylphenol	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Benzoic acid	ND	530	μg/Kg-dry	1	9/26/01 6:15:00 PM
2-Nitrophenol	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
Bis(2-chloroethoxy)methane	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
2,4-Dichlorophenol	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
1,2,4-Trichlorobenzene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Naphthalene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
4-Chloroaniline	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Hexachlorobutadiene	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
4-Chloro-3-methylphenol	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM
2-Methylnaphthalene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Hexachlorocyclopentadiene	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
2,4,6-Trichlorophenol	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
2,4,5-Trichlorophenol	ND	270	μg/Kg-dry	1	9/26/01 6:15:00 PM
2-Chloronaphthalene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
2-Nitroaniline	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM
Dimethyl phthalate	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
2,6-Dinitrotoluene	ND	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
Acenaphthylene	440	270	µg/Kg-dry	1	9/26/01 6:15:00 PM
3-Nitroaniline	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM
4-Nitrophenol	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM
2,4-Dinitrophenol	ND	530	µg/Kg-dry	1	9/26/01 6:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-203

Lab Order:

0109150

Project: Lab ID: 068511000 Devens Landfill

Collection Date: 9/20/01

0109150-03C

Matrix: SOIL

Analyses	Result	RL	Qual U	Jnits	DF	Date Analyzed
Acenaphthene	ND	270	þ	ıg/Kg-dry	1	9/26/01 6:15:00 PM
2,4-Dinitrotoluene	ND	270		ıg/Kg-dry	1	9/26/01 6:15:00 PM
Dibenzofuran	ND	270	1	ig/Kg-dry	1	9/26/01 6:15:00 PM
Diethyl phthalate	ND	270	1	ıg/Kg-dry	1	9/26/01 6:15:00 PM
4-Chlorophenyl phenyl ether	ND	270	Į.	ig/Kg-dry	Ť	9/26/01 6:15:00 PM
Fluorene	ND	270	1	ıg/Kg-dry	1	9/26/01 6:15:00 PM
4-Nitroaniline	ND	530	ı	ıg/Kg-dry	1	9/26/01 6:15:00 PM
4,6-Dinitro-2-methylphenol	ND	530	1	ug/Kg-dry	1	9/26/01 6:15:00 PM
N-Nitrosodiphenylamine	ND	270	1	ug/Kg-dry	1	9/26/01 6:15:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	270	1.1	ug/Kg-dry	1	9/26/01 6:15:00 PM
4-Bromophenyl phenyl ether	ND	270	1	ug/Kg-dry	1	9/26/01 6:15:00 PM
Hexachlorobenzene	ND .	270	,	ug/Kg-dry	1	9/26/01 6:15:00 PM
Pentachlorophenol	ND	530	1	ug/Kg-dry	1	9/26/01 6:15:00 PM
Phenanthrene	340	270	1	ug/Kg-dry	1	9/26/01 6:15:00 PM
Anthracene	400	270	1	ug/Kg-dry	1	9/26/01 6:15:00 PM
Carbazole	ND	270	1	µg/Kg-dry	1	9/26/01 6:15:00 PM
Di-n-butyl phthalate	ND	270	1	µg/Kg-dry	1	9/26/01 6:15:00 PM
Fluoranthene	1,800	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Benzidine	ND	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Pyrene	1,800	270	1	µg/Kg-dry	1	9/26/01 6:15:00 PM
Butyl benzyl phthalate	ND	270	1	µg/Kg-dry	1	9/26/01 6:15:00 PM
Bis(2-ethylhexyl)phthalate	ND	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
3,3'-Dichlorobenzidine	ND	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Benz(a)anthracene	1,000	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Chrysene	1,400	270	1	µg/Kg-dry	1	9/26/01 6:15:00 PM
Di-n-octyl phthalate	ND	270		μg/Kg-dry	1	9/26/01 6:15:00 PM
Benzo(b)fluoranthene	2,000	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Benzo(k)fluoranthene	660	270		μg/Kg-dry	1	9/26/01 6:15:00 PM
Benzo(a)pyrene	1,100	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Dibenz(a,h)anthracene	ND	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Indeno(1,2,3-cd)pyrene	1,000	270		µg/Kg-dry	1	9/26/01 6:15:00 PM
Benzo(g,h,i)perylene	880	270		µg/Kg-dry	1	9/26/01 6:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order: 0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01C

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	SV	V8081A				Analyst: RAP
alpha-BHC	ND	8.2		μg/Kg-dry	10	9/26/01 5:45:00 PM
beta-BHC	ND	8.2		μg/Kg-dry	10	9/26/01 5:45:00 PM
delta-BHC	ND	8.2	- 0	µg/Kg-dry	10	9/26/01 5:45:00 PM
gamma-BHC	ND	8.2		µg/Kg-dry	10	9/26/01 5:45:00 PM
Heptachlor	ND	8.2		µg/Kg-dry	10	9/26/01 5:45:00 PM
Aldrin	ND	8.2	9	µg/Kg-dry	10	9/26/01 5:45:00 PM
Heptachlor epoxide	ND	8.2		µg/Kg-dry	10	9/26/01 5:45:00 PM
Endosulfan I	ND	8,2		µg/Kg-dry	10	9/26/01 5:45:00 PM
alpha-Chlordane	ND	8.2		µg/Kg-dry	10	9/26/01 5:45:00 PM
gamma-Chlordane	ND	8.2		μg/Kg-dry	10	9/26/01 5:45:00 PM
Dieldrin	ND	16		μg/Kg-dry	10	9/26/01 5:45:00 PM
4,4'-DDE	130	16		µg/Kg-dry	10	9/26/01 5:45:00 PM
Endrin	ND	16		μg/Kg-dry	10	9/26/01 5:45:00 PM
Endosulfan II	ND	16		µg/Kg-dry	10	9/26/01 5:45:00 PM
4,4'-DDD	ND	16		μg/Kg-dry	10	9/26/01 5:45:00 PM
Endrin aldehyde	ND	. 16		μg/Kg-dry	10	9/26/01 5:45:00 PM
Endrin ketone	ND	16		µg/Kg-dry	10	9/26/01 5:45:00 PM
Endosulfan sulfate	ND	16		µg/Kg-dry	10	9/26/01 5:45:00 PM
4,4'-DDT	490	82		µg/Kg-dry	50	9/27/01 5:12:00 PM
Methoxychlor	ND	82		µg/Kg-dry	10	9/26/01 5:45:00 PM
Toxaphene	ND	260		μg/Kg-dry	10	9/26/01 5:45:00 PM
Technical Chlordane	ND	260		μg/Kg-dry	10	9/26/01 5:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-02C

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	SI	W8081A			Analyst: RAF
alpha-BHC	ND	8.4	μg/Kg-dry	10	9/26/01 6:13:00 PM
beta-BHC	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
delta-BHC	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
gamma-BHC	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
Heptachlor	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
Aldrin	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
Heptachlor epoxide	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
Endosulfan I	ND	8.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
alpha-Chlordane	ND	8.4	μg/Kg-dry	10	9/26/01 6:13:00 PM
gamma-Chlordane	ND	3.4	µg/Kg-dry	10	9/26/01 6:13:00 PM
Dieldrin	ND	17	μg/Kg-dry	10	9/26/01 6:13:00 PM
4 4 -DDE	170	17	µg/Kg-dry	10	9/26/01 6:13:00 PM
Endrin	ND	17	µg/Kg-dry	10	9/26/01 6:13:00 PM
Endosulfan II	ND	17	µg/Kg-dry	10	9/26/01 6:13:00 PM
4.4*-DDD	50	17	µg/Kg-dry	10	9/26/01 6:13:00 PM
Endrin aldehyde	ND	17	µg/Kg-dry	10	9/26/01 6:13:00 PM
Endrin ketone	ND	17	µg/Kg-dry	10	9/26/01 6:13:00 PM
Endosulfan sulfate	ND	* 7	µg/Kg-dry	10	9/26/01 6:13:00 PM
4.4"-DDT	760	170	µg/Kg-dry	100	9/27/01 5:39:00 PM
Methoxychlor	ND	84	μg/Kg-dry	10	9/26/01 6:13:00 PM
Toxaphene	ND	260	μg/Kg-dry	10	9/26/01 6:13:00 PM
Technical Chlordane	ND	260	µg/Kg-dry	10	9/26/01 6:13:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-03C

Client Sample ID: DLRP-SP-203

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	SV	V8081A			Analyst: RAF
alpha-BHC	ND	8.3	μg/Kg-dry	10	9/26/01 6:41:00 PM
beta-BHC	ND	8.3	µg/Kg-dry	10	9/26/01 6:41:00 PM
delta-BHC	ND	8.3	μg/Kg-dry	10	9/26/01 6:41:00 PM
gamma-BHC	ND	8.3	µg/Kg-dry	10	9/26/01 5:41:00 PM
Heptachlor	ND	8.3	µg/Kg-ary	10	9/26/01 6:41 00 PM
Aldrin	ND	8.3	ug/Kg-dry	10	9/26/01 6:41:00 PM
Heptachlor epoxide	ND	8.3	ug/Kg-dry	10	9/26/01 6:41:00 PM
Endosulfan I	ND	8.3	ug/Kg-dr/	10	9/26/01 6:41:00 PM
alpha-Chlordane	ND	3.3	µg/Kg-ery	10	9/26/01 6:41 00 PM
gamma-Chlordane	.4E	3.3	ug/Kg-ary	10	9/26/01 6 41 00 PM
Dieldrin	₩D.	17	ug/Kg-an/	10	9/26/01 6 41 03 FM
4.4'-DDE	197	17	ug/Kg-ar-	10	9/26/01 6/41 CE FM
Endrin	1852	177	₄g/Kg-an	10	9/25/01 6.41 90 751
Endosulfan II	NO	+=	ug/Kig-cr/	10	9/26/01 5.41 S2 PM
4,4°-DDD	*IC	17	ug/Kg-any	10	9/26/01 6/41 CO FM
Endrin aldehyde	21/4	7	ug/Kg-ary	10	9/26/01 6 41 13 PM
Endrin ketone	ND	17	µg/Kg-ary	10	9/26/01 6 41.00 FM
Endosulfan sulfate	\$1C	17	ig/Kg-ary	10	9/26/01 6:41 CO PM
4,4°-DDT	950	170	ug/Kg-ary	100	9/27/01 6:07:00 FM
Methoxychlor	(D)	33	HatKa-anv	10	9/26/01 6:41 CO PM
Toxaphene	NO	260	μο/Kg-dry	10	9/26/01 6.41.00 PM
Technical Chlordane	ND	260	ug/Kg-ary	10	9/26/01 6 41 00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

CONTINUING CALIBRATION SUMMARY

Analysis Date:	26 Sep 2001		analyst: RAP		
Instrument ID:	TRENT				
COLUMN ID:	FRONT CLP Pesticide 1: 0.32	mm	BACK CLP Pesticide 2: 0.32mm		
BREAKDOWN (1):				
5	Front	F	Back		
DD	T 2.3	DDT	3.0		
ENDRI		ENDRIN	0.7		
	Initial CCV: G8			Term. CCV: (39
INDA	-				
	Front	Back		Front	Back
TC		1.8	TCX	1.6	
ALPHA-BH		-5.1	ALPHA-BHC	11.4	-1.7
GAMMA-BH		-9.8	GAMMA-BHC	11.5	-1.1
HEPTACHLO		12.6	HEPTACHLOR	0.9	2.6
ENDOSULFAN		-1.3	ENDOSULFAN I	-9.5	1.3
DIELDRI		4.6	DIELDRIN	-4.5	4.8
ENDRI		+ -32.4	ENDRIN	-1.0	1.7
DD		-9.9	DDD	-7.8	-12.4
DC		-13.5	DDT		-13.0
METHOXYCHLO		-2.2	METHOXYCHLOR	6.9	1,4
DC		4.91	DCB	6.0	6.7
INDB					
	Front	Sack		Front	Back
77	x -7.21	41	TCX		-4.3
ALDR		1 17	ALDRIN	0.9	0.9
3ETA-BH	(C) 5.1	2.0	BETA-BHC	5.8	-8.6
DELTA-BI	4C 45.61 *	-13.5	DELTA-BHC	79.1	* -4.0
HEPTACHLOR EPONIE			HEPTACHLOR EPOXIDE		1.2
GAMMA-CHLORDAN	-0,4	71.31	GAMMA-CHLORDANE		4.5
ALPHA-CHLORDAY		1 12	ALPHA-CHLORDANE		4.2
DC	-	94.00	DDE		-10.9
ENDOSULFAN		-11 21	ENDOSULFAN II		3.8
ENDRIN ALDEHYI			ENDRIN ALDEHYDE		-4.9
ENDOSULFAN SULFA		-3.7	ENDOSULFAN SULFATE		* 7.9
ENDRIN KETO		-(0)	ENDRIN KETONE		* 9.0
Ave. %Drift for all an	CB 2.4	31	DCB		11.8
TYC. TODING OF AN AND	10.6	4.3	Ave. %Drift for	12.6	5.3
	1.0.0			12.0	
	Data Files		PEM: C:\HPCHEM\1\	DATA\01JUL	20\T20JUL03.D
1st INDA: C:\HPCH			2nd INDA: C:\HPCHEM\1\		
1st INDB: C:\HPCH	HEM\1\DATA\01SEP2	6\T268EP01.D	2nd INDB: C:\HPCHEM\1\	DATA\01SEF	P26\T26SEP19.D
CALIBOI	JEMMANDAT MOACEDO	CITOCS	CALIDOUEMAN	DATAMOTEE	DOGITOGGEDON D

Notes:

1. 4,4' DDT and Endrin maximum degradation = 15%

THE RESERVE OF THE PROPERTY OF

2. Ave %Drift maximum = 15%

CONTINUING CALIBALION SUMMARY

Analysis Date:	27 Sep 2001	-	Analyst:	RAP		
Instrument ID:	TRENT					
COLUMN ID:	FRONT CLP Pesticide 1: 0.32mm		BACK CLP Pesticide	2; 0.32mm		
BREAKDOWN (1):					
	Front		Back			
DD	T 2.5	DDT	2.6			
ENDRI	N 5.2	ENDRIN	1.3			
	Initial CCV: G10			Ter	m. CCV: G11	
INDA						
	Front	Back		Fre	ont	Back
TC		4.3		TCX	-4.1	-4.5
ALPHA-BH		-5.3		ALPHA-BHC	6.2	-5.6
GAMMA-BH	ic -1.7	4.4		GAMMA-BHC	5.8	-5.1
HEPTACHLO		10.1		HEPTACHLOR	0.9	2.5
ENDOSULFAS	(4) -(0.4)	1.1		ENDOSULFAN I	-11.3	0.6
DIELDA	3.8	-2.3		DIELDRIN	4.5	-1.4
ENDR	N -2,71	1.1		ENDRIN	-2.9	-1.1
~ 0	124	-103		DDD	-2.4	-12.1
34	311 7	-0.5		DDT	3.9	-5.1
METHON" IL		2.7	M	ETHOXYCHLOR	10.3	-0.1
		1.5		DCB	2.8	8.9
INDB						
	7-111	Back		Fr	ont -	Back
144	144	-0.5		TCX	-8,4	-7.8
Q	-	,4		ALDRIN	0.3	4.6
527 :- 2		J' 3		BETA-BHC	-0.9	-2.0
DELTAMO	4	-21.5		DELTA-BHC	43.6 *	-9.6
HEPTACHLOR ET WALL	3/7/2014	2.6		HLOR EPONIDE	1.6	3.3
GAMMA-CHLORDAD	\E) _=	5.3	GAMS	A-CHLORDANE	3.9	6.9
ALPHA-CHLORDA	NE -3.21	2.7	ALPI	IA-CHLORDANE	0.6	7.8
31	35: 43101	-5.5		DDE	-5.5	-12.5
ENDC		1,5		ENDOSULFAN II	1.1	2.5
ENDRIN ALDERY		-15	END	RIN ALDEHYDE	13.1	5.3
ENDOSULFAN SULFA		-3,4	ENDOSU	LEAN SULFATE	66.9 *	1.5
ENDRIN SET D	- Commence of the Commence of	-1.6	E	NDRIN KETONE	51.4 *	-1.4
	CB[4.7		DCB	4.5	10.5
Ave. %Drift for an an				ve. %Drift for all a		
	2.0	4.9		-	10.7	5.3
	Data Files	* 0 m = c =		:\HPCHEM\1\DA		
1st INDA: C:\HPC	HEM\1\DATA\01JUL20\72 HEM\1\DATA\01SEP27_7	27SEP01.D	2nd INDA: C	:\HPCHEM\1\DA :\HPCHEM\1\DA	TA\01SEP27\T:	27SEP03.D 27SEP12.D
	HEM\1\DATA\01SEP27 T			:\HPCHEM\1\DA		

Motes

1. 4,4' DDT and Endrin maximum degradation = 15%

2. Ave %Drift maximum = 15%

Date: 28-Sep-01

CLIENT: Lab Order: Stone & Webster Construction Co.

0

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01C

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082	sv	V8082				Analyst: RAP
Aroclor 1016	ND	26		μg/Kg-dry	1	9/26/01 4:03:00 PM
Aroclor 1221	ND	26		μg/Kg-dry	1	9/26/01 4:03:00 PM
Aroclor 1232	ND	26		μg/Kg-dry	1	9/26/01 4:03:00 PM
Aroclor 1242	ND	26		µg/Kg-dry	1	9/26/01 4:03:00 PM
Aroclor 1248	ND	26		μg/Kg-dry	1	9/26/01 4:03:00 PM
Aroclor 1254	ND	26		μg/Kg-dry	1	9/26/01 4:03:00 PM
Aroclor 1260	ND	26		μg/Kg-dry	1	9/26/01 4:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed by dding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-02C

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
PCBS BY EPA8082	sv	V8082			Analyst: RAP
Aroclor 1016	ND	26	μg/Kg-dry	1	9/26/01 4:30:00 PM
Aroclor 1221	ND	26	μg/Kg-dry	1	9/26/01 4:30:00 PM
Aroclor 1232	ND	26	μg/Kg-dry	1	9/26/01 4:30:00 PM
Aroclor 1242	ND	26	μg/Kg-dry	1	9/26/01 4:30:00 PM
Aroclor 1248	ND	26	μg/Kg-dry	1	9/26/01 4:30:00 PM
Aroclor 1254	ND	26	μg/Kg-dry	1	9/26/01 4:30:00 PM
Aroclor 1260	ND	26	µg/Kg-dry	1	9/26/01 4:30:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-03C

Client Sample ID: DLRP-SP-203

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082				Analyst: RAP
Aroclor 1016	ND	26		μg/Kg-dry	1	9/26/01 5:50:00 PM
Aroclor 1221	ND	26		µg/Kg-dry	1	9/26/01 5:50:00 PM
Aroclor 1232	ND	26		µg/Kg-dry	1	9/26/01 5:50:00 PM
Aroclor 1242	ND	26		µg/Kg-dry	1	9/26/01 5:50:00 PM
Aroclor 1248	ND	26		µg/Kg-dry	1	9/26/01 5:50:00 PM
Aroclor 1254	ND	26		µg/Kg-dry	1	9/26/01 5:50:00 PM
Aroclor 1260	ND	26		μg/Kg-dry	1	9/26/01 5:50:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-01D

Client Sample ID: DLRP-SP-201

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: KD
Diesel Range Organics	76	53		mg/Kg-dry	1	9/26/01 2:12:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109150

Project:

068511000 Devens Landfill

Lab ID:

0109150-02D

Client Sample ID: DLRP-SP-202

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: KD
Diesel Range Organics	96	51		mg/Kg-dry	1	9/26/01 2:48:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-203

Lab Order:

0109150

Project: Lab ID: 068511000 Devens Landfill

0109150-03D

Collection Date: 9/20/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B				Analyst: KD
Diesel Range Organics	110	49		mg/Kg-dry	1	9/26/01 3:24:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-201

Lab Order:

0109150

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-01B

Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCA	RBONS	MAVPH			Analyst: SK
C5-C8 Aliphatic Hydrocarbons	3.3	3.0	mg/Kg-dry	1	9/26/01 7:21:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	0.74	mg/Kg-dry	1	9/26/01 7:21:00 PM
C9-C10 Aromatic Hydrocarbons	0.76	0.74	mg/Kg-dry	1	9/26/01 7:21:00 PM
Methyl tert-butyl ether	ND	0.059	mg/Kg-dry	1	9/26/01 7:21:00 PM
Benzene	0.097	0.059	mg/Kg-dry	t	9/26/01 7:21:00 PM
Toluene	0.45	0.059	mg/Kg-dry	1	9/26/01 7:21:00 PM
Ethylbenzene	ND	0.059	mg/Kg-dry	1	9/26/01 7:21:00 PM
m.p-Xylene	0.39	0.059	mg/Kg-dry	1	9/26/01 7:21:00 PM
o-Xylene	0.20	0.059	mg/Kg-dry	1	9/26/01 7:21:00 PM
Naphthalene	0.26	0.15	mg/Kg-dry	1	9/26/01 7:21:00 PM
Surr: Dibromofluoromethane	93,9	70-130	%REC	1	9/26/01 7:21:00 PM
Surr: 1,2-Dichloroethane-d4	79.7	70-130	%REC	1	9/26/01 7:21:00 PM
Surr: Toluene-d8	97.4	70-130	%REC	1	9/26/01 7:21:00 PM
Surr: 4-Bromofluorobenzene	91.8	70-130	%REC	1	9/26/01 7:21:00 PM
Surr: 2.5-Dibromotoluene	90.1	70-130	%REC	1	9/26/01 7:21:00 PM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

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CERTIFICAT	IC DIN

Were all QA/QC procedures required by the VPH or EPH method followed:

Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:
Were any significant modifications made to the metron as specified in section 11.3:

Yes _____ No - If No, See Case Narrative
No ____ Yes - Details enclosed

I attest under the pains and penalties of periory that, to ed upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is. to best of my knowledge and belief, accurate and complete.

SIGNATURE:

lydel

9-28-01

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit; defined as the lowest - incentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike decovery outside accepted recovery limits

E - Value above quantitation range

J - Analyte detected below quantitation limits

R - RPD stside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

i - Method prescribed holding time exceeded

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-202

Lab Order:

0109150

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-02B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBON	S	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.1		mg/Kg-dry	1	9/26/01 6:05:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	0.53		mg/Kg-dry	1	9/26/01 6:05:00 PM
C9-C10 Aromatic Hydrocarbons	ND	0.53		mg/Kg-dry	1	9/26/01 6:05:00 PM
Methyl tert-butyl ether	ND	0.043		mg/Kg-dry	1	9/26/01 6:05:00 PM
Benzene	ND	0.043		mg/Kg-dry	1	9/26/01 6:05:00 PM
Toluene	ND	0.043		mg/Kg-dry	1	9/26/01 6:05:00 PM
Ethylbenzene	ND	0.043		mg/Kg-dry	1	9/26/01 6:05:00 PM
m,p-Xylene	ND	0.043		mg/Kg-dry	1	9/26/01 6:05:00 PM
o-Xylene	ND	0.043		mg/Kg-dry	Ť	9/26/01 6:05:00 PM
Naphthalene	ND	0.11		ing/Kg-ary	7	9/26/01 5:05:00 PM
Surr: Dibromofluoromemane	96.0	70-130		%REC.	7	9/26/01 6:05:00 PM
Surr: 1,2-Dichlorsethane-14	B1 4	70-130		*GREC	1	9/26/01 6:05:50 PM
Surr: Toluene-a8	104	70-120		%REC	11	9/28/01 5:05:00 PM
Surr: 4-Bromofiuoropenzens	102	70-130		%REC	10.00	9/26/01 3,05 00 PM
Surr: 2,5-Dibromotoruene	102	70-130		REC	1	9/26/01 6:05:00 PM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION	TIFICATION	NC
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Were all QA/QC procedures required by the VPH or EPH method followed:

No - If No. See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved:

√ Yes No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No Yes - Details enclosed

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate,

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

H - Method prescribed holding time exceeded

E - Value above quantitation range

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

- See Case Narrative

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-203

Lab Order:

0109150

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-03B

Matrix: SOIL

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBON	S	MAVPH				Analyst: SK
C5-C8 Aliphatic Hydrocarbons	ND	2.9		mg/Kg-dry	1	9/26/01 6:44:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	0.73		mg/Kg-dry	1	9/26/01 6:44:00 PM
C9-C10 Aromatic Hydrocarbons	ND	0.73		mg/Kg-dry	7	9/26/01 6:44:00 PM
Methyl lert-butyl ether	ND	0.058	1 11	mg/Kg-dry	1	9/26/01 6:44:00 PM
Benzene	ND	0.058		mg/Kg-dry	1	9/26/01 6:44:00 PM
Toluene	ND	0.058		mg/Kg-dry	1	9/26/01 6:44:00 PM
Ethylbenzene	ND	0.058		mg/Kg-dry	1	9/26/01 6:44:00 PM
m p-Xylene	ND	0.058		mg/Kg-dry	4	9/26/01 5:44:00 PM
o-Xylene	ND	0.058		mg/Kg-dry	1	9/26/01 6:44:00 PM
Naphthalene	ND	0.15		mg/Kg-dry	1	9/26/01 6:44 00 PM
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	9/26/01 6.44:00 PM
Surr 1.2-Dichloroethane-d4	84.3	70-130		%REC	1	9/26/01 6:44:00 PM
Surr. Toluene-d8	102	70-130		%REC	1	9/26/01 6:44 00 PM
Surr 4-Bromofluoropenzene	106	70-130		%REC	1	9/26/01 6:44:00 PM
Surr: 2,5-Dibromatoluene	110	70-130		%REC	1	9/26/01 6:44:00 PM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed:

Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: Ves

Yes ____ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

No V Yes - Details enclosed

l attest under the pains and penalties of permy that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this most is, to the best of my knowledge and belief, accurate and complete.

information, the material contained in this most is, to the best of my knowledge and belief, accurate and complete

SIGNATURE:

Mysens

DATE: 9-28-01

PRINTED NAME. Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: Ri. - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate,

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-201

Lab Order:

0109150

Tag Number:

Project:

068511000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-01D

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	OCARBONS MA	EPH				Analyst: RKK
*** Sample receipt problems were observe	d for this lest method.	See Cas	e Narrati	ive for details. *	44	
C9-C18 Aliphatic Hydrocarbons	ND	53		mg/Kg-dry	1	9/28/01 6:36:00 AM
C19-C36 Aliphatic Hydrocarbons	ND	53		mg/Kg-dry	4	9/28/01 6:36:00 AM
C11-C22 Aromatic Hydrocarbons	53	53		mg/Kg-dry	*	9/28/01 6:36:00 AM
Naphthalene	0.36	0.26		mg/Kg-dry	1	9/28/01 5:35:00 AM
2-Methylnaphthalene	0.32	0.26		mg/Kg-dry	4	9/28/01 6:36:00 AM
Acenaphthylene	0.36	0.26		mg/Kg-dry	1	9/28/01 6:35:00 AM
Acenaphthene	ND	0.26		ma/Kg-dry	1	9/28/01 6:36:00 AM
Fluorene	ND	0.25		mg/Kg-dry	1	9/28/01 5:35:00 AM
Phenanthrene	0.66	0.26		mg/Kg-drv	7	9/28/01 6 36 00 AM
Anthracene	0.35	0.26		mg/Kg-ary	7	9/28/01 6:35 CD AM
Fluoranthene	22	0.22		mg/Kg-arv	Y	9/28/01 SEE JO AM
Pyrene	2.1	0,26		mg/Kg-drv	+	9/28/01 6:38 00 AM
Benz(a)anthrac∈n≘	w <u>2</u>	0.25		ma/Kg-dry		9/28/01 6:35 00 AM
Chrysene	17	0.25		mg/Kg-ary	*	9/28/01 6 35.50 AM
Benzo(b)fluoranthene	7.3	0.28		ms/Kg-ary	1	9/28/01 6:35 00 AM
Benzo(k)fluoranthen≘	0.54	0.28		ma Kg-dry	Y	9/28/01 8 35 03 PM
Benzo(a)pyrene	1.2	0.26		mg/Kg-dry	3.1	9/28/01 6.36 00 AM
Dibenz(a,h)anthracene	NO	0.28		mg/Kg-dry	1	9/28/01 8:36:00 AM
Indena(1,2,3-cd)py/ene	1.0	0.26		mg:Kg-ary	3	9/28/01 6:36 20 AM
Benzo(g,h,i)peryiene	0.93	0.26		mg/Kg-dry	11	9/28/01 6/36/00 AM
Surr 1-Chloropotadecane	130	40-140		%REC	1	9/28/01 6.36.00 AM
Surr: 2-Bromonaphthalene	105	40-140		%REC	- 9	9/28/01 6 36 00 AM
Surr. 2-Fluorobiphenyl	109	40-140		%REC	1	9/28/01 5/36 00 AM
Surr: o-Terphenyl	89.2	40-140		%REC	1	9/28/01 6:36:00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

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Were all QA/QC procedures required by the VPH or EPH method followed:

No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: 🗸 Yes

No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3:

Yes - Details enclosed No

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

PRINTED NAME. Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range

1 - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

- See Case Narrative

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

Date: 28-Sep-01

CLIENT: Stone & Webster Construction Co. Client Sample ID: DLRP-SP-202

Lab Order: 0109150 Tag Number:

Project: 068511000 Devens Landfill Collection Date: 9/20/01

Lab ID: 0109150-02D Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	ROCARBONS N	IAEPH			Analyst: RKK
*** Sample receipt problems were observe		d. See Cas	e Narrative for details. *	**	The second secon
C9-C18 Aliphatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/28/01 7:11:00 AM
C19-C36 Aliphatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/28/01 7:11:00 AM
C11-C22 Aromatic Hydrocarbons	ND	52	mg/Kg-dry	1	9/28/01 7:11:00 AM
Naphthalene	ND	0.26	mg/Kg-dry	19	9/28/01 7:11:00 AM
2-Methylnaphthalene	ND	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Acenaphthylene	0.31	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Acenaphthene	ND	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Fluorene	ND	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Phenanthrene	0.43	0,26	mg/Kg-dry	*	9/28/01 7:11:00 AM
Anthracene	0.33	0.26	mg/Kg-dry	1	9/28/01 7:11 00 AM
Fluoranthene	1.8	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Pyrene	1.8	0.25	mg/Kg-dry	1	9/28/01 7:11:00 AM
Benz(a)anthracens	0.84	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Chrysene	12	0.26	mg/Kg-dry	j	9/28/01 7:11:00 AM
Benzo(b)fluoranthene	1.8	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Benzo(k)fluoranthene	0.53	0 26	mg/Kg-dry	*	9/28/01 7:11 00 AM
Benzo(a)pyrene	0.96	0.26	mg/Kg-dry	4	9/28/01 7:11:00 AM
Dibenz(a.h)anthracene	ND	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Indeno(1,2,3-cd)pyrene	0.92	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Benzo(g,h,i)perylene	0.86	0.26	mg/Kg-dry	1	9/28/01 7:11:00 AM
Surr 1-Chlorooctadecane	92.6	40-140	%REC	1	9/28/01 7:11 00 AM
Surr: 2-Bromonaphthalene	106	40-140	%REC	4	9/28/01 7:11:00 AM
Surr: 2-Fluorobiphenyl	105	40-140	%REC	9	9/28/01 7:11:00 AM
Surr: o-Terphenyl	79.6	40-140	%REC	1	9/28/01 7 11 00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

The state of the s	
CERTIFICATION	4
Were all QA/QC procedures required by the VPH or EPH method followed:	Yes No - If No, See Case Narrative
Were all performance/acceptance standards for required QA/QC procedures ac	hieved: Yes No - If No, See Case Narrative
Were any significant modifications made to the method as specified in section 1	11.3: No Yes - Details enclosed
I attest under the pains and penalties of perjury that, based upon my inquiry of tinformation, the material contained in this report is, to the best of my knowledge	
SIGNATURE: SIGNATURE:	DATE: 928-01
PRINTED NAME: Nancy Stewart	POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

granters. At the particular management of the most and th

ND Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank H - Method prescribed holding time exceeded

Date: 28-Sep-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-203

Lab Order:

0109150

Tag Number:

Project:

0685 | 1000 Devens Landfill

Collection Date: 9/20/01

Lab ID:

0109150-03D

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDR	OCARBONS N	AEPH			Analyst: RKK
*** Sample receipt problems were observe	d for this test metho	d. See Case N	arrative for details. *		
C9-C18 Aliphatic Hydrocarbons	ND	53	mg/Kg-dry	1	9/28/01 7:47:00 AM
C19-C36 Aliphatic Hydrocarbons	ND	53	mg/Kg-dry	1	9/28/01 7:47:00 AM
C11-C22 Aromatic Hydrocarbons	67	53	mg/Kg-dry	1	9/28/01 7:47:00 AM
Naphthalene	ND	0,27	mg/Kg-dry	1	9/28/01 7:47:00 AM
2-Methylnaphthalene	ND	0.27	mg/Kg-dry	1	9/28/01 7:47:00 AM
Acenaphthylene	0.49	0.27	mg/Kg-dry	1	9/28/01 7 47:00 AM
Acenaphthene	ND	0.27	mg/Kg-dry	1	9/28/01 7 47:00 AM
Fluorene	ND	0.27	mg/Kg-dry	1	9/28/01 7:47:00 AM
Phenanthrene	0.47	0.27	mg/Kg-arv	7	9/28/01 7 47 00 AM
Anthracene	0.43	0,27	mg/Kg-an	1	9/28/01 7:47:00 AM
Fluoranthene	2.2	0/27	mg/Kg-dry	1	9/28/01 7 47 00 AM
Pyrene	2.1	0.57	mg/Kg-an/	4	9/28/01 7 47 00 AM
Benz(a)anthracene	2.2	0.27	mg/Kg-ary	7	9/28/01 7 47:00 AM
Chrysene	1.6	0.27	mg/Kg-dry	1	9/28/01 7 47:00 AM
Benzo(b)fluoranthena	2.6	0.27	mg/Kg-dry	1	9/28/01 7 47 00 AM
Benzo(k)fluoranthene	0.78	0.27	mg/Ks-arv		9/28/01 7 47 CO AM
Benzo(a)pyrene	1.4	0.27	mg/Kg-áry	1	9/28/01 7:47:00 AM
Dibenz(a,h)anthracens	0.34	0.27	mg/Kg-ary	1	9/28/01 7 47.00 AM
Indeno(1,2,3-cd)pyrene	1,5	0.27	mg/Kg-ary	1	9/28/01 7,47 00 AM
Benzo(g,h,i)perylene	1.4	0.27	mg/Kg-áty	1	9/28/01 7:47:00 AM
Surr: 1-Chlorooctadecane	134	40-140	WREC	1	9/28/01 7 47 90 AM
Surr: 2-Bromonaphthalene	105	40-140	%REC	1	9/28/01 7 47 00 AM
Surr: 2-Fluorobiphenyi	107	40-140	%REC	1	9/28/01 7.47 00 AM
Surr: o-Terphenyl	96.2	40-140	%REC	1	9/28/01 7 47 00 AM

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

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Were all QA/QC procedures required	d by the VPH or EPH method followed:
------------------------------------	--------------------------------------

Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: Were any significant modifications made to the method as specified in section 11.3:

Yes No - If No, See Case Narrative
No Yes - Details enclosed

l attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

mormation, the material contained in this report is, to the best of my knowledge and belief, accurate and comple

SIGNATURE: X

0.5=0

PRINTED NAME: Nancy Stewart

POSITION: Laboratory Director (or designee)

Qualifiers: RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

= - See Case Namative

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

AMRO Environmental Laboratories Corporation 111 Herrick Street Merrimack, NH 03054

Volatile Petroleum Hydrocarbons (VPH) Massachusetts Department of Environmental Protection (MADEP) Method 1.0 - January 1998 AMRO Modifications

This modification is based on the use of a purge and trap gas chromatography mass spectrometer (GC/MS) system to analyze samples for VPH. The hydrocarbon ranges are quantified using predominant mass fragmentation ions which are characteristic for the range being measured. This approach eliminates potential false positives for the target analytes while providing accurate hydrocarbon range data.

The chromatographic column is an HP-624 capillary column which has been validated by GC/MS analysis of a gasoline standard to correctly identify the marker compounds and elution order of specific gasoline components. Batch quality control includes, at a minimum, method blank, laboratory control sample, and duplicate analysis. A matrix spike and/or matrix spike duplicate is analyzed if sufficient sample is submitted to the laboratory.

The Reporting Limit (RL) of this method for each of the collective alighatic and aromatic ranges is approximately 0.6-2.8 mg/kg in soil and 25-110 µg/L in water. The RL of this method for the larget analytes ranges from approximately 0.05-0.13 mg/kg in soil and 2.0-5.0 µg/L for water samples.

Extractable Petroleum Hydrocarbons (EPH) Massachusetts Department of Environmental Protection (MADEP) Method 1.0 - January 1998 AMRO Modifications

This modification is based on a solvent extraction and gas chromatography mass spectrometer (GC/MS) analysis. The hydrocarbon ranges are quantified using predominant mass fragmentation ions which are characteristic for the range taing measured. This approach eliminates the silica gel solid-phase fractionation step. False positives for targeted PAH analytes are eliminated by using GC/MS as the primary analysis technique.

The chromatographic column is a J&W Scientific D8-5ms capillary column, Internal standard calibration is performed using 5α-Androstane at a concentration of 40 ng/μL, α-Terphenyl and 1-Chlorooctadecane are added as surrogate compounds at 20 ng/μL in the sample extract. These two surrogates monitor the affects of the sample matrix and extraction efficiency. Two additional surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, are added to the finished extract prior to analysis to monitor instrument performance. Eatch quality control includes, at a minimum, a procedure blank, laboratory control sample and duplicate sample analysis. A matrix spike is analysed if sufficient sample is submitted to the laboratory.

The Reporting Limit (RL) of this method for each of the collective aliphatic and aromatic ranges is approximately 2-15 mg/kg in soil and 10-50 µg/L in water. The RL of this method for the Target FAH analytes ranges from approximately 0.25 to 0.5mg/kg in soil; 1.0µg/L for water when operating the GC/MS in full scan mode, and 0.1 to 1.0µg/L when operating the GC/MS in SIM mode. For sites requiring the lowest levels cited in the Massachusens Contingency Plan for water, GC/MS in the Selected Ion Monitoring (SIM) mode is used.

Lab Order:

0109150

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0109150-01A	DLRP-SP-201	9/20/01	Soil	GASOLINE RANGE ORGANICS		9/20/01	9/28/01
				VOI ATILES by GC7MS. Medium-Level		9/20/01	9/25/01
0109150-0113				Volatile Petroleum Hydrocarbons		9/20/01	9/26/01
0109150-01C				ICP METALS, 3051/6010		9/24/01	9/25/01
				MERCURY, Soil		9/24/01	9/25/01
				ORGANOCHLORINE PESTICIDES		9/25/01	9/26/01
				ORGANOCHLORINE PESTICIDES		9/25/01	9/27/01
				PCBS IN SOIL/SOLIDS		9/25/01	9/26/01
	Percent Moisture		Percent Moisture			9.2 (.01)	
				SVOC + Pyridme, Soil/Solids		9/26/01	9). 2(r)(()
0109150-01D				DIESEL RANGE ORGANICS		9/25/01	9/26.03
				EPH. Soil. Full List		9/25/01	9/28/01
0109150-02A	DLRP-SP-202			GASOLINE RANGE ORGANICS		9/20/01	9/26 01
				VOLATH ES by GC/MS, Medium-Level		9/20/01	9/25/01
0109150-02B				Volatile Petroleum Hydrocarbons		9/20/01	9/26/01
0109150-02C			R P MI TALS, 305			9/24/01	9/25/01
				MERCURY, Soil		9/24/01	9/25/01
				ORGANOCTILORINE PESTICIDES		9/25/01	9/27/01
				ORGANOCHI ORINE PESTICIDES		9/25/01	9/26/01
				PCBS IN SOIL/SOLIDS		9/25/01	9/26/01
				Percent Moisture			9/24/01
				SVOC + Pyridine, Soil/Solids		9/26/01	9/26/01
0109150-02D				DIESEL RANGE ORGANICS		9/25/01	9/26/01
				FPH, Soil, Full List		9/25/01	9/28/01
0109150-03A	DLRP-SP-203			GASOLINE RANGE ORGANICS		9/20/01	9/26/01
				VOLATHUS by GC/MS, Medium-Level		9/20/01	9/25/01
0109150-0313				Volable Petroleum Hydrocarbons		9/20/01	9/26/01
0109150-03C				ICP METALS, 3051/6010		9/24/01	9/25/01

Lab Order:

0109150

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Sample ID	Client Sample 1D	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0109150-03C	DLRP-SP-203	9/20/01	Soil	MERCURY, Soil		9/24/01	9/25/01
				ORGANOCHLORINE PESTICIDES		9/25/01	9/26/01
				ORGANOCHLORINE PESTICIDES		9/25/01	9/27/01
				PCBS IN SOIL/SOLIDS		9/25/01	9/26/01
				Percent Moisture			9/24/01
				SVOC + Pyridine, Soil/Solids		9/26/01	9/26/01
0109150-03D				DIESEL RANGE ORGANICS		9/25/01	9/26/01
				EPH. Soil. Full List		9/25/01	9/28/01
0109150-04A	TRIP BLANK			VOLATILES by GC/MS, Medium-Level		9/20/01	9/25/01

SAMPLE RECEIPT CHECKLIST

111 Herrick Street Merrimack, NH 03054

Client: STONE Z WEBSTER	Maali	1.		(603) 424-2022
SIGNE - WEDSIER	AMRO II			109150
Ship via: (circle one) Fed Ex., UPS, AMRO Courier,	Date Re			9-21-01
Hand Del., Other Courier, Other:	Date Du	er		10-3-01
Para Paris, Oblini, Oblini,	*			
Items to be Checked Upon Receipt	Yes	No	NA	Comments
Army Samples received in individual plastic bags?	/44	1.8	1	Continenta
2. Custody Seals present?				
3. Custody Seals Intact?		-	1	
4. Air Bill included in folder if received?		-	1	
5. Is COC included with samples?				
Is COC signed and dated by client?	1			
7. Laboratory receipt temperature. TEMP = 6 Samples rec. with ice ice packs neither				
8. Were samples received the same day they were sampled? Is client temperature 4°C ± 2°C?				
	1	-		
If no obtain authorization from the client for the analyses. Client authorization from: Date: Obtained by:	-			
Is the COC filled out correctly and completely? 10. Does the info on the COC match the samples?	/		000	
	V	-		
11. Were samples rec. within holding time?	1			
12. Were all samples properly labeled?	-		1	
13. Were all samples properly preserved?			-	1000
14. Were proper sample containers used?	/	/		EPH W Word of
15. Were all samples received intact? (none broken or leaking)	1			U
16. Were VOA vials rec. with no air bubbles?			1	
17. Were the sample volumes sufficient for requested analysis? 18. Were all samples received?	1		-	
19. VPH and VQA Soils only:	11/		Lane of the land	
	1			
Sampling Method VPH (circle one): M=Methand. E=EnCore (air-tight	it container)		
Sampling Method VOA (circle one) M=Methanol, SB=Sodium Bisulfa If M or SB:	ate, ==EnC	are, 8=6	Sulk	
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed. Were vials provided by AMRO?				
	V	-17		
If NO then weights MUST be obta Was dry weight aliquot provided?	ined from	CHERT		
If NO then fax client and inform the	VOA lat	ASAB		· · · · · · · · · · · · · · · · · · ·
20. Subcontracted Samples:	IE YUA IAL	AUAL.		
What samples sent:			1	
7 7 2 3-40	-			
VVnere sent*			-	
Where sent:				
Date:				
Date: Analysis:				
Date: Analysis: TAT.				
Date: Analysis: TAT. 1. Information entered into:				
Date: Analysis: TAT. 1. Information entered into: Internal Tracking Log?	V			
Date: Analysis: TAT: 1. Information entered into: Internal Tracking Log? Dry Weight Log?	7			
Date: Analysis: TAT. I1. Information entered into: Internal Tracking Log? Dry Weight Log? Client Log?	7		V	
Date: Analysis: TAT: 11. Information entered into: Internal Tracking Log? Dry Weight Log?	y		V	

CHAIN-OF-CUS ODY RECORD

y # "-

Office: (603) **1-2022 Fax: (603 8496

111 He. Street Merrimann, NH 03054

Project No.: Project Name: Project Manager							ager:				Samplers (Signature):				AMRO Project No.:				
	Project State:				<u> </u>	-				-			-		3)		-		
Sample ID	Date/Time	Matrix	Total #							Analy	ysis Re	equired						Remarks	
	Sampled	A= Air S= Soil GW= Ground W, WW= Waste W. DW= Drinking W. O= Oil Other= Specify	of Cont. & Size								4								
10.1.3	F-10-3																1	1.1	DOC
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() = m () ()																	.4 :		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1 7 7										11						l q	1.50	
11 1 4 4	1 1 200	Ì	9)																
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peter - 51 - 242	1445		July 1								3-1						(y y 1		
11. 168-64-203	1595		1- Sul	100	rs.	10 (X) 40	·	36		f 1							14 F 3		
DUZP-58-203	¥ 1535	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(35										
Preservative: Cl-HCl, MeOH, N-											MEDI								
Container Type: P- Plastic, G-G				let	(A	£.	6.	Ci	1	17	1/								
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Send Results To: Ser Sy										6.511	TO A STORAGE	70	****		~***		-		
	MA GHIZZ								-	Seat	ntact?	1	GW-1	- '	GW-2	_	GW-3	_	
17150.										Yes	No	N/A	MCP Le	el Need	ed:				
Relinquished By	Date/ Time	Re	ceived By				Date	Time		P.O. 1	No:								
State 12.55	121/01	11				~ *	d.	12	, ,			E	efore subr	nitting s	amples fo	r expedit	AUTHORIZ ted TAT, you	must have re	3120 0 000
	11184									By:	ts Need	A	uTHORI			ded TAT	BY:	ATION NU	MBER
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CHAIN-OF-CU" 'DDY RECORD

40922

Office: (603' '4-2022 Fax: (60: '-8496

111 He Street
Merrim..., NH 03054

Project No.: (X.85 HOOG)	Project Name;	- 11		Manager: TEFF SiteA				olers (Sig	nature):	AMRO Project No.:				
	Project State:										,			
Sample ID	Date/Time	Matrix	Total #					Analys	is Requir	ed				Remarks
	Sampled	A= Aîr S= Soil GW= Ground W. WW= Waste W. DW= Drinking W. O= Oil Other= Specify	of Cont. & Size											
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Preservative: CI-HCI, MeOH, N-HN	IO2 C H2CO4 NI	NoOU O Other		-						-	4-4	-	+	
Container Type: P- Plastic, G-Glass				+-	+		-	\vdash		-	+=+		+	
Please print clearly, legibly and co								NOTES: Preservatives, Special reporting limits, Known Contamination, etc;						
logged in and the turnaround time ambiguities are resolved.			FAX No.:	(· · · · · · · · · · · · · · · · · · ·	4	- 3.			*o (i					
Send Results To: TEFF Sec.	8	- 11												
								Seal In	tact?	GW-1	_ 0	SW-2	_	GW-3
								Yes	No N/A	MCP L	evel Neede	ed;		
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Was Atter	apriloi	MUC	wan		4/2/1/56								AUTHORIZATION ed TAT, you must have requested	
1.0	1 1100		4			<i>T</i>		Results Needed i			and recei		led TAT	AUTHORIZATION NUMBER BY:
Janesen	Billist	C. Coa	elcer		9/21	01 15	40	112	-1.0-1	-	S	HEET	Z	OF Z
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The Commonwealth of Massachusetts



Department of Environmental Protection Division of Environmental Analysis Senator William X. Wall Experiment Station

certifies

M-NH012

AMRO ENVIRONMENTAL LAB 111 HERRICK ST MERRIMACK, NH 03054-0000

Laboratory Director: Nancy Stewart

for the analysis of NON POTABLE WATER (CHEMISTRY)
POTABLE WATER (CHEMISTRY)

pursuant to 310 CMR 42.00

This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.

This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.

Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.

Issued:

01 JUL 2001

Expires:

30 JUN 2002

Director, Division of Environmental Analysis

COMMONWEALTH OF MASS ACHUSEITS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of:

01 JUL 2001

M-NH012

AMRO ENVIRONMENTAL LAB

MERRIMACK NH

NON POTABLE WATER (CHEMISTRY)		Effective Date	01 JUL 2001	Expiration Date	30 JUN 2002
Analy	rtes and Methods				
ALUMINUM	EPA 200.7		NITRATE-N		EPA 353.2
ANTIMONY	EPA 200.7		KJELDAHL-N		EPA 351.1
ANTIMONY	EPA 204.2		KJELDAHL-N		EPA 351.2
ARSENIC	EPA 200.7		ORTHOPHOSPHATE		EPA 365.2
ARSENIC	EPA 206.2		ORTHOPHOSPHATE		EPA 300.0
ARSENIC	ASTM D2972-9	3(C)	TOTAL PHOSPHORUS		EPA 365.2
BERYLLIUM	EPA 200.7		CHEMICAL OXYGEN DE	MAND	EPA 410.4
CADMIUM	EPA 200.7		CHEMICAL OXYGEN DE	EMA ND	HACH METHOD 8000
CHROMIUM	EPA 200.7		BIOCHEMICAL OXY GEN	DEMAND	EPA 405.1
COBALT	EPA 200.7		TOTAL CYANIDE		EPA 335.2
COPPER	EPA 200.7		NON-FILTERABLE RESI	DUE	EPA 160.2
IRON	EPA 200.7		TOTAL RESIDUAL CHL	ORINE	SM 4500-CL-G
LEAD	EPA 200.7		OIL AND GREASE		EPA 413.1
LEAD	EPA 239.2	1	TOTAL PHENOLICS		EPA 420.1
MANGANESE	EPA 200.7		VOLATILE HALOCARB	ONS	EPA 624
MERCURY	EPA 245.1		VOLATILE A ROMATICS	3	EPA 624
MOLYBDENUM	EPA 200.7		CHLORDANE		EPA 608
VICKEL.	EPA 200.7		ALDRIN		EPA 608
SELENIUM	EPA 200.7		DIELDRIN		EPA 608
SELENIUM	EPA 270.2		DDD		EPA 608
SILVER	EPA 200.7		DDT		EPA 608
STRONTIUM	EPA 200.7		HEPTACHLOR	EPA 608	
THALLIUM	EPA 200.7		HEPTACHLOR EPOXIDE	EPA 608	
THALLIUM	EPA 279.2		POLY CHLORINATED BI	PHENYLS (WATER)	EPA 608
ZINC	EPA 200.7		POLY CHLORINATED BI	PHENYLS (OIL)	EPA 600/4-81-045
PH	EPA 150.1				
SPECIFIC CONDUCTIVITY	EPA 120.1				
TOTAL DISSOLVED SOLIDS	EPA 160.1				
TOTAL HARDNESS (CACO3)	EPA 200.7				
CALCIUM	EPA 200.7				
MAGNESIUM	EPA 200.7				
SODIUM	EPA 200.7				
POTASSIUM	EPA 200.7				
TOTAL ALKALINITY	EPA 310.1				
CHLORIDE	EPA 325.3				
CHLORIDE	EPA 300.0				
FLUORIDE	EPA 340.2				
FLUORIDE	EPA 300.0				
SULFATE	EPA 375.4				
SULFATE	EPA 300.0				
MMONIA-N	EPA 350.2				
NITRATE-N	EPA 300.0				

COMMONWEALTH OF MASSACHUSEITS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of:

01 JUL 2001

M-NH012

AMRO ENVIRONMENTAL LAB

MERRIMACK NH

POTABLE WATER (CHEMISTRY)		Effective Date	01 JUL 2001	Expiration 30 JUN 2002 Date
Analytes	and Methods			
ANTIMONY	EPA 200.9			
ARSENIC	EPA 200.7			
ARSENIC	EPA 200.9			×
BARIUM	EPA 200.7			
BERYLLIUM	EPA 200.7		4	
CADMIUM	EPA 200.7			
CHROMIUM	EPA 200.7			
COPPER	EPA 200.7		*	
LEAD	EPA 200.9			
MERCURY	EPA 245.1			
NICKEL	EPA 200.7			
SELENIUM	EPA 200.9			
THALLIUM	EPA 200.9			
NITRATE-N	EPA 353.2	*		
NITRITE-N	EPA 353.2			
FLUORIDE	EPA 300.0			
FLUORIDE	SM 4500-F-E			
SULFATE	EPA 300.0			
CYANIDE	SM 4500-CN-C	C,E		
TURBIDITY	EPA 180.1			
RESIDUAL FREE CHLORINE	SM 4500-CL-G	3		
CALCIUM	EPA 200.7			
TOTAL DISSOLVED SOLIDS	SM 2540C			
PH	EPA 150.1			
1,2-DIBROMOETHANE	EPA 504.1			
1,2-DIBROMO-3-CHLOROPROPANE	EPA 504.1			

APPENDIX 16

West Rail – PetroFlag Field Data



Hydrocarbon Test Kit - Field Data Sheet

Date: 12/11/01	Calibration Time/Date:	083c
Operator: LBM/SPC	Calibration Temperature:	14.1°C
Location: WEST RAIL STOCKPILE	-	
(BRENIM ROAD)		

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	PF-WR-01	109	0900	498	1	5	498	SOIL
2	PF-WR-02		1045	654	•		v54	
3	PF-WR-03		1230	6(2	8		LCZ	
4	PF-W2-04	1	1310	816	1.3	4	¥16:	1
5								
6								
7								
8								
9								
10								
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20								

 $^{1}DF = Dilution$ Factor, e.g., for 5 gram soil sample DF = 10g/5g = 2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



Hydrocarbon Test Kit - Field Data Sheet

Date: jzlizloi	Calibration Time/Date:	0830
Operator: LBM	Calibration Temperature:	5.8°C
Toostiens I la Ca Causa		

Location: WEY RAIL STOCKPILE

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-WR-05	109	0900	693	i	5	693	Soil
2	PF-WR-06		1030	640	. 1		640	
3	PF-WR-07		1125	1150			1150	
4	PF-WR-08		1230	1170			1170	
5	PF-VR-09	1	1330	839	1	1	839	4
6								
7								
8				*				
9								
10								
11				*				
12								
13								
14								
15								
16								
17								
18								
19								
20								

¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.

F'USERSIPUBLICINSTRUCT Petrilag PFWRKSHT 002 Rev 0



Hydrocarbon Test Kit - Field Data Sheet

Date: 12/13/01		Calibration Time/Date:	0830	
Operator:	LBM/JPC	Calibration Temperature:	11.2°C	

Location: WEST RAIL STOCKPILE

(BARNUM ROAD)

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-WR-10	109	0915	855	1	5	855	SOIL
2	PF-WR-11		1025	714	-1	1	714	1
3	PF-WR-12		1200	570			570	
4	PF-WR-13		1320	989			989	
5	PF-WR-14	V	1420	951	V	V	951	1
6								
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20								

 1 DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.

F.\USERS\PUBLIC\INSTRUCT\Petrilag\PFWRKSHT.002 Rev 0



Hydrocarbon Test Kit - Field Data Sheet

Date: 12/17/01	Calibration Time/Date:	0330	
Operator: LBM TOC	Calibration Temperature:	5601	

Location: WEST Pru Scockfie

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF1	RF ²	Actual (ppm)	Comments
1	PF-WR-15	109	0900	314	1	5	314	Soil
2	P-WR-16	1	0940	281	. 1		281	
3	PF-WR-17		1045	200			200	
4	PF-WR-18		1125	356			356	
5	PF-WR-19		1315	486			486	
6	PF-WR-20		1400	208			208	
7	PF-WR-21		1440	286			286	
8	PF-WR-22	V	1520	189	1	1	189	1
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¹DF = Dilution Factor, e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.

F \USERS\PUBLIC\INSTRUCT\Petrflag\PFWRKSHT 002 Rev 0

APPENDIX 17

Lot 9 Analytical Data



111 Herris Stree, Merrimach, NH 03054 TEL: (603) 424-2029 (FA), (603) 429-8496

October 08, 2001

Jeffrey Shea Stone & Webster Construction Co. 45 Patton Road Aver. MA 01432

TEL: (978) 784-0900 FAX: (978) 784-0999

RE: 068511000 Devens Landfill

Order No.: 0109213

Dear Jeffrey Shea:

AMRO Environmental Laboratories Corp. received 9 samples on 9/27/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period — thirty (30) days from this report date. After this time. AMRO will properly dispose of the remaining sample(s). If some require further analysis, or need the samples held for a longer period, pleass condit.

This report consists of a total of _____ rages. This letter is an integral part of your and report. If you have any questions regarding this project in the future, please refer to the Order Number above.

P. M. Many Stewart

Sincerely.

Nancy Stewart

Vice President / Lab Director

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Work Order Sample Summary

Lab Order: Date Received: 0109213 9/27/01

Lab Sample ID	Client Sample ID	Collection Date
0109213-01A	DLRP-SP-213	9/26/01
0109213-01B	DLRP-SP-213	9/26/01
0109213-02A	DLRP-SP-214	9/26/01
0109213-02B	DLRP-SP-214	9/26/01
0109213-03A	DLRP-SP-215	9/26/01
0109213-03B	DLRP-SP-215	9/26/01
0109213-04A	DLRP-SP-216	9/26/01
0109213-04B	DLRP-SP-216	9/26/01
0109213-05A	DLRP-SP-217	9/26/01
0109213-05B	DLRP-SP-217	9/26/01
0109213-06A	DLRP-SP-218	9/26/01
0109213-06B	DLRP-SP-218	9.′26.′01
0109213-07A	DLRP-SP-219	9′26/01
0109213-07B	DLRP-SP-219	9/26/01
0109213-08A	DLRP-SP-221	9 27 '01
0109213-08B	DLRP-SP-221	9'27'01
0109213-09A	DLRP-SP-222	9'27'01
0109213-09B	DLRP-SP-222	9/27/01

*ate: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

Lab Order:

0109213

CASE NARRATIVE

PCB

1. Samples 0109213-01B and 0109213-06B had a recovery for the surrogate Decachlorobiphenyl outside the QC limits.

PESTICIDES

- 1. The %difference (%D) in the Continuing Calibration Verification analyzed on 10/03/01 on instrument Trent exceeded the $\pm 15\%$ limit. The laboratory used the average percent difference for all analytes as per SW-846 Method 8081A Section 7.5. Please refer to the Continuing Calibration Summary Form in the Pesticide Section.
- 2. The recovery for the surrogate Decachlorobiphenyl was outside the QC limits in samples 0109213-01B and 0109213-06B.

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-221

Lab Order:

0109213

Project:

068511000 Devens Landfill

Lab ID:

0109213-08B

Collection Date: 9/27/01

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: RK
Arsenic	10	6.3		mg/Kg-dry	1	10/2/01 4:25:20 PM
Barium	ND	25		mg/Kg-dry	1	10/2/01 4:25:20 PM
Cadmium	ND	0.63		mg/Kg-dry	1	10/2/01 4:25:20 PM
Chromium	11	1.3		mg/Kg-dry	1	10/2/01 4:25:20 PM
Lead	36	3.1		mg/Kg-dry	1	10/2/01 4:25:20 PM
Selenium	ND	10		mg/Kg-dry	1	10/2/01 4:25:20 PM
Silver	ND	1.8		mg/Kg-dry	1	10/2/01 4:25:20 PM
MERCURY, 7471A		SW7471A				Analyst: GM
Mercury	ND	0.026		mg/Kg-dry	1	10/1/01
PERCENT MOISTURE		D2216				Analyst: JC
Percent Moisture	6.6	0		wt%	1	9/28/01

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project: 068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-09B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846 - 3051/6010		SW6010B				Analyst: RK
Arsenic	13	6.5		mg/Kg-dry	1	10/2/01 4:29:48 PM
Barium	ND	26		mg/Kg-dry	1	10/2/01 4:29:48 PM
Cadmium	ND	0.65		mg/Kg-dry	1	10/2/01 4:29:48 PM
Chromium	11	1.3		mg/Kg-dry	1	10/2/01 4:29:48 PM
Lead	39	3.2		mg/Kg-dry	1	10/2/01 4:29:48 PM
Selenium	ND	10		mg/Kg-dry	1	10/2/01 4:29:48 PM
Silver	ND	1.8		mg/Kg-dry	1	10/2/01 4:29:48 PM
MERCURY, 7471A		SW7471A				Analyst: GM
Mercury	ND	0,025		mg/Kg-dry	i	10/1/01
PERCENT MOISTURE		D2216				Analyst: JC
Percent Moisture	6.4	0		wt%	1	9/28/01

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-221

Lab Order:

0109213

Project:

068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-08A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 503	5 MEDIUM-LEVE	SW8260B				Analyst: SK
Dichlorodifluoromethane	ND	50		µg/Kg-dry	1	10/1/01 10:22:00 PM
Chloromethane	ND	50		μg/Kg-dry	1	10/1/01 10:22:00 PM
Vinyl chloride	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Chloroethane	ND	50		µg/Kg-dry	1	10/1/01 10:22:00 PM
Bromomethane	ND	50		μg/Kg-dry	1	10/1/01 10:22:00 PM
Trichlorofluoromethane	ND	50		µg/Kg-dry	1	10/1/01 10:22:00 PM
Diethyl ether	ND	250		μg/Kg-dry	1	10/1/01 10:22:00 PM
Acetone	ND	250		μg/Kg-dry	1	10/1/01 10:22:00 PM
1,1-Dichloroethene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Carbon disulfide	ND	50		µg/Kg-dry	1	10/1/01 10:22:00 PM
Methylene chloride	ND	.50		μg/Kg-dry	1	10/1/01 10:22:00 PM
Methyl tert-butyl ether	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
trans-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,1-Dichloroethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Tentary Butanol	ND	2,500		μg/Kg-dry	1	10/1/01 10:22:00 PM
2-Butanone	ND	250		µg/Kg-dry	1	10/1/01 10:22:00 PM
Diisopropyl ether	ND	50		µg/Kg-dry	1	10/1/01 10:22:00 PM
2,2-Dichloropropane	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
cis-1,2-Dichloroethene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
Ethyl Tertiary Butyl Ether	ND	50		μg/Kg-dry	1	10/1/01 10:22:00 PM
Chloroform	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Tetrahydrofuran	ND	250		µg/Kg-dry	1	10/1/01 10:22:00 PM
Bromochloromethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,1,1-Trichloroethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,1-Dichloropropene	ND	25		µg/Kg-dry	4	10/1/01 10:22:00 PM
Carbon tetrachloride	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,2-Dichloroethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Benzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Trichloroethene	330	25	4	µg/Kg-dry	1	10/1/01 10:22:00 PM
1,2-Dichloropropane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Bromodichloromethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Dibromomethane	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
Tertiary Amyl Methyl Ether	ND	50		μg/Kg-dry	1	10/1/01 10:22:00 PM
4-Methyl-2-pentanone	ND	250		µg/Kg-dry	1	10/1/01 10:22:00 PM
cis-1,3-Dichloropropene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
Toluene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
trans-1,3-Dichloropropene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
1,1,2-Trichloroethane	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Lab Order:

0109213

Project:

068511000 Devens Landfill

Lab ID:

0109213-08A

Client Sample ID: DLRP-SP-221

Collection Date: 9/27/01

Matrix: SOIL

analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
2-Hexanone	ND	250		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,3-Dichloropropane	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
Tetrachloroethene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Dibromochloromethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Chlorobenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,1,1,2-Tetrachloroethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Ethylbenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
m,p-Xylene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
o-Xylene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Styrene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
Bromoform	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Isopropylbenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,1,2,2-Tetrachloroethane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,2,3-Trichloropropane	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Bromobenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
n-Propylbenzene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
2-Chlorotoluene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
4-Chlorotoluene	ND	25		µg/Kg-dry	4	10/1/01 10:22:00 PM
1.3.5-Trimethylbenzene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
tert-Butylbenzene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
1,2,4-Trimethylbenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
sec-Butylbenzene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
4-Isopropyltoluene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1.3-Dichlorobenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,4-Dichlorobenzene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
n-Butylbenzene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
1,2-Dichlorobenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
1,2-Dibromo-3-chloropropane	ND	50		μg/Kg-dry	1	10/1/01 10:22:00 PM
1,2,4-Trichlorobenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM
Hexachlorobutadiene	ND	25		μg/Kg-dry	1	10/1/01 10:22:00 PM
Naphthalene	ND	50		μg/Kg-dry	1	10/1/01 10:22:00 PM
1,2,3-Trichlorobenzene	ND	25		µg/Kg-dry	1	10/1/01 10:22:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range # - See Case Narrative

H - Method prescribed holding time exceeded

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project: 068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-09A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
OLATILES BY GC/MS, EPA 503	5 MEDIUM-LEVE	SW8260B				Analyst: Sh
Dichlorodifluoromethane	ND	59		μg/Kg-dry	1	10/1/01 10:57:00 PM
Chloromethane	ND	59		μg/Kg-dry	1	10/1/01 10:57:00 PM
Vinyl chloride	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Chloroethane	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
Bromomethane	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
Trichlorofluoromethane	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
Diethyl ether	ND	300		µg/Kg-dry	1	10/1/01 10:57:00 PM
Acetone	ND	300		μg/Kg-dry	1	10/1/01 10:57:00 PM
1,1-Dichloroethene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Carbon disulfide	ND	59		μg/Kg-dry	1	10/1/01 10:57:00 PM
Methylene chloride	ND	59		μg/Kg-dry	1	10/1/01 10:57:00 PM
Methyl tert-butyl ether	ND	30		µg/Kg-dry	7	10/1/01 10:57:00 PM
trans-1,2-Dichloroethene	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
1,1-Dichloroethane	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
Tertiary Butanol	ND	3,000		µg/Kg-dry	1	10/1/01 10:57:00 PM
2-Butanone	ND	300		µg/Kg-dry	7	10/1/01 10:57:00 PM
Diisopropyl ether	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
2.2-Dichloropropane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
cis-1,2-Dichloroethene	ND	30		µg/Kg-dry	7	10/1/01 10:57:00 PM
Ethyl Tertiary Butyl Ether	ND	59		µg/Kg-dry	1	10/1/01 10;57;00 PM
Chloroform	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Tetrahydrofuran	ND	300		µg/Kg-dry	1	10/1/01 10:57:00 PM
Bromochloromethane	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
1,1,1-Trichloroethane	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
1,1-Dichloropropene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Carbon tetrachloride	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
1,2-Dichloroethane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Benzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Trichloroethene	250	30		µg/Kg-dry	7	10/1/01 10:57:00 PM
1,2-Dichloropropane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Bromodichloromethane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Dibromomethane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Tertiary Amyl Methyl Ether	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
4-Methyl-2-pentanone	ND	300		µg/Kg-dry	1	10/1/01 10:57:00 PM
cis-1,3-Dichloropropene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Toluene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
trans-1,3-Dichloropropene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
1,1,2-Trichloroethane	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project:

068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-09A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
2-Hexanone	ND	300		µg/Kg-dry	1	10/1/01 10:57:00 PM
1,3-Dichloropropane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Tetrachloroethene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Dibromochloromethane	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Chlorobenzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
1,1,1,2-Tetrachloroethane	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
Ethylbenzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
m.p-Xylene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
o-Xylene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Styrene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Bromeform	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
Isopropylbenzene	ND	30		ug/Kg-dry	1	10/1/01 10:57:00 PM
1 1.2,2-Tetrachloroethane	ND	30		μg/Kg-dry	4	10/1/01 10:57:00 PM
1.2,3-Trichloropropane	ND	30		µg/Kg-dry	1	19/1/01 10:57:00 PM
Bromobenzene	ND	30		μg/Kg-dry	4	10/1/01 10:57:00 PM
n-Propylbenzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
2-Chiorotoiuene	ND	30		µg/Kg-dry	4	10/1/01 10:57:00 PM
4-Chlorotoluene	ND	30		µg/Kg-dry		10/1/01 10:57:00 PM
1.3.5-Trimethylbenzene	MD	30		µg/Kg-dry	T.	10/1/01 10:57:00 PM
tert-Butylbenzene	P.D	30		μg/Kg-dry		10/1/01 10:57:00 PM
1.2.4-Trimetnylbenzene	ND.	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
sec-Butylbenzene	MD	30		µg/Kg-dry		10/1/01 10:57:00 PM
4-Isopropyltoluene	ND	30		µg/Kg-dry	-	10/1/01 10:57:00 PM
1.3-Dichlorobenzene	ND	30		µg/Kg-dry	181	10/1/01 10:57:00 PM
1.4-Dichlorobenzene	ND	30		µg/Kg-dry	3	10/1/01 10:57:00 PM
n-Butylbenzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
1.2-Dichlorobenzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM
1.2-Dibromo-3-chloropropane	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
1,2,4-Trichlorobenzene	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
Hexachlorobutadiene	ND	30		μg/Kg-dry	1	10/1/01 10:57:00 PM
Naphthalene	ND	59		µg/Kg-dry	1	10/1/01 10:57:00 PM
1.2.3-Trichlorobenzene	ND	30		µg/Kg-dry	1	10/1/01 10:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-221

Lab Order:

0109213

Project:

068511000 Devens Landfill

Lab ID:

0109213-08B

Collection Date: 9/27/01

Matrix: SOIL

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	sv	V8270C			Analyst: KD
Pyridine	ND	530	μg/Kg-dry	1	10/5/01 5:28:00 PM
N-Nitrosodimethylamine	ND	530	µg/Kg-dry	1	10/5/01 5:28:00 PM
Phenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
Bis(2-chloroethyl)ether	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
2-Chlorophenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
1,3-Dichlorobenzene	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
1,4-Dichlorobenzene	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
Benzyl alcohol	ND	530	μg/Kg-dry	1	10/5/01 5:28:00 PM
2-Methylphenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
1,2-Dichlorobenzene	ND	260	µg/Kg-dry	4	10/5/01 5:28:00 PM
Bis(2-chloroisopropyl)ether	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
4-Methylphenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
N-Nitrosodi-n-propylamine	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
Hexachloroethane	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
Nitrobenzene	ND	260	µg/Kg-dry	7	10/5/01 5:28:00 PM
Isophorone	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
2,4-Dimethylphenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
Benzoic acid	ND	530	µg/Kg-dry	1	10/5/01 5:28:00 PM
2-Nitrophenol	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
Bis(2-chloroethoxy)methane	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
2,4-Dichlorophenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
1,2,4-Trichlorobenzene	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
Naphthalene	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
4-Chloroaniline	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
Hexachlorobutadiene	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
4-Chloro-3-methylphenol	ND	530	µg/Kg-dry	1	10/5/01 5:28:00 PM
2-Methylnaphthalene	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
Hexachlorocyclopentadiene	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
2,4,6-Trichlorophenol	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
2,4,5-Trichlorophenol	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
2-Chloronaphthalene	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
2-Nitroaniline	ND	530	µg/Kg-dry	1	10/5/01 5:28:00 PM
Dimethyl phthalate	ND	260	µg/Kg-dry	1	10/5/01 5:28:00 PM
2,6-Dinitrotoluene	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
Acenaphthylene	ND	260	μg/Kg-dry	1	10/5/01 5:28:00 PM
3-Nitroaniline	ND	530	μg/Kg-dry	1	10/5/01 5:28:00 PM
4-Nitrophenol	ND	530	μg/Kg-dry	1	10/5/01 5:28:00 PM
2,4-Dinitrophenol	ND	530	µg/Kg-dry	1	10/5/01 5:28:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-221

Lab Order:

0109213

Project:

068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID: 0109213-08B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	260		μg/Kg-dry	1	10/5/01 5:28:00 PM
2,4-Dinitrotoluene	ND	260		μg/Kg-dry	1	10/5/01 5:28:00 PM
Dibenzofuran	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
Diethyl phthalate	ND	260		μg/Kg-dry	1	10/5/01 5:28:00 PM
4-Chlorophenyl phenyl ether	ND	260		μg/Kg-dry	1	10/5/01 5:28:00 PM
Fluorene	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
4-Nitroaniline	ND	530		µg/Kg-dry	1	10/5/01 5:28:00 PM
4,6-Dinitro-2-methylphenol	ND	530		µg/Kg-dry	1	10/5/01 5:28:00 PM
N-Nitrosodiphenylamine	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260		μg/Kg-dry	1	10/5/01 5:28:00 PM
4-Bromophenyl phenyl ether	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
Hexachlorobenzene	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
Pentachiorophenol	ND	530		µg/Kg-dry	1	10/5/01 5:28:00 PM
Phenanthrene	480	260		µg/Kg-dry	†	10/5/01 5:28:00 PM
Anthracene	ND	260		µg/Kg-dry	7	10/5/01 5:28:00 PM
Carbazole	ND	260		µg/Kg-dry	9	10/5/01 5:28:00 PM
Di-n-butyl phthalate	ND	260		µg/Kg-dry	4	10/5/01 5:28:00 PM
Fluoranthene	770	260		µg/Kg-dry	*	10/5/01 5:28:00 PM
Benzidine	ND	260		µg/Kg-dry	*	10/5/01 5:28:00 PM
Pyrene	760	260		µg/Kg-dry	4	12/5/01 5:28:00 PM
Butyl penzyl phthalate	ND	260		µg/Kg-dry	7	10 f /01 5;28:00 PM
Bis(2-ethylhexyl)phthalate	ND	260		µg/Kg-dry	1	10 5 0 5:28:00 PM
3.3'-Dichlorobenzidine	ND	260		µg/Kg-dry	7	10/5 01 5:28:00 PM
Benz(a)anthracene	400	260		µg/Kg-dry	1	10 5/2" 5:28:00 PM
Chrysene	420	260		µg/Kg-dry	4	10/5/01 5:28:00 PM
Di-n-octyl phthalate	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
Benzo(b)fluoranthene	530	260		μg/Kg-dry	7	10/5/01 5:28:00 PM
Benzo(k)fluoranthene	ND	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
Benzo(a)pyrene	390	260		μg/Kg-dry	7	10/5/01 5:28:00 PM
Dibenz(a,h)anthracene	ND	260		μg/Kg-dry	1	10/5/01 5:28:00 PM
Indeno(1.2,3-cd)pyrene	340	260		µg/Kg-dry	1	10/5/01 5:28:00 PM
Benzo(g.h,i)perylene	350	260		μg/Kg-dry	4	10/5/01 5:28:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

L - Value above quantitation range

= - See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project:

068511000 Devens Landfill

Lab ID: 0109213-09B

Collection Date: 9/27/01

Matrix: SOIL

Analyses	Result	RL Qua	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	sv	V8270C			Analyst: KD
Pyridine	ND	520	μg/Kg-dry	1	10/3/01 11:17:00 PM
N-Nitrosodimethylamine	ND	520	μg/Kg-dry	1	10/3/01 11:17:00 PM
Phenol	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Bis(2-chloroethyl)ether	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
2-Chlorophenol	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
1,3-Dichlorobenzene	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
1,4-Dichlorobenzene	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
Benzyl alcohol	ND	520	µg/Kg-dry	1	10/3/01 11:17:00 PM
2-Methylphenol	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
1,2-Dichlorobenzene	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
Bis(2-chloroisopropyl)ether	ND	260	µg/Kg-dry	4	10/3/01 11:17:00 PM
4-Methylphenol	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
N-Nitrosodi-n-propylamine	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Hexachloroethane	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Nitrobenzene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Isophorone	ND	260	μg/Kg-dry	7	10/3/01 11:17:00 PM
2,4-Dimethylphenol	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Benzoic acid	ND	520	µg/Kg-dry	1	10/3/01 11:17:00 PM
2-Nitrophenol	ND	260	µg/Kg-dry	7	10/3/01 11:17:00 PM
Bis(2-chloroethoxy)methane	ND	260	µg/Kg-dry	7	10/3/01 11:17:00 PM
2,4-Dichlorophenol	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
1.2.4-Trichlorobenzene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Naphthalene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
4-Chloroaniline	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
Hexachlorobutadiene	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
4-Chloro-3-methylphenol	ND	520	μg/Kg-dry	1	10/3/01 11:17:00 PM
2-Methylnaphthalene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Hexachlorocyclopentadiene	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
2,4,6-Trichlorophenol	ND	260	µg/Kg-dry	7	10/3/01 11:17:00 PM
2,4,5-Trichlorophenol	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
2-Chloronaphthalene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
2-Nitroaniline	ND	520	µg/Kg-dry	1	10/3/01 11:17:00 PM
Dimethyl phthalate	ND	260	μg/Kg-dry	1	10/3/01 11:17:00 PM
2,6-Dinitrotoluene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
Acenaphthylene	ND	260	µg/Kg-dry	1	10/3/01 11:17:00 PM
3-Nitroaniline	ND	520	µg/Kg-dry	1	10/3/01 11:17:00 PM
4-Nitrophenol	ND	520	μg/Kg-dry	1	10/3/01 11:17:00 PM
2.4-Dinitrophenol	ND	520	μg/Kg-dry	1	10/3/01 11:17:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project:

068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-09B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
2,4-Dinitrotoluene	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Dibenzofuran	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Diethyl phthalate	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
4-Chlorophenyl phenyl ether	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Fluorene	ND	260		μg/Kg-dry	1	10/3/01 11:17:00 PM
4-Nitroaniline	ND	520		μg/Kg-dry	1	10/3/01 11:17:00 PM
4,6-Dinitro-2-methylphenol	ND	520		μg/Kg-dry	1	10/3/01 11:17:00 PM
N-Nitrosodiphenylamine	ND	260		μg/Kg-dry	1	10/3/01 11:17:00 PM
1.2-Diphenylhydrazine (as Azobenzene)	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
4-Bromophenyl phenyl ether	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Hexachlorobenzene	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Pentachlorophenol	ND	520		µg/Kg-dry	1	10/3/01 11:17:00 PM
Phenanthrene	270	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Anthracene	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Carbazole	ND	260		μg/Kg-dry	7	10/3/01 11:17:00 PM
Di-n-butyl phthalate	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Fluoranthene	450	260		µg/Kg-dry	Ť	10/3/01 11:17:00 PM
Benzidine	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Pyrene	450	260		µg/Kg-dry		10/3/01 11:17:00 PM
Butyl benzyl phthalate	ND	260		μg/Kg-dry	2	10/3/01 11:17:00 PM
Bis(2-ethylhexyl)phthalate	DN	260		µg/Kg-dry	7	10/3/01 11:17:00 PM
3.3 - Dichlorobenzidine	ND	260		µg/Kg-dry	Α.	10/3/01 11:17:00 PM
Benz(a)anthracene	ND	260		μg/Kg-dry	ž.	10/3/01 11:17:00 PM
Chrysene	260	260		µg/Kg-dry	t	10/3/01 11:17:00 PM
Di-n-octyl phthalate	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM
Benzo(b)fluoranthene	310	260		µg/Kg-dry	4	10/3/01 11:17:00 PM
Benzo(k)fluoranthene	ND	260		µg/Kg-dry	4	10/3/01 11:17:00 PM
Benzo(a)pyrene	ND	260		μg/Kg-dry	Ť	10/3/01 11:17:00 PM
Dibenz(a,h)anthracene	ND	260		μg/Kg-dry	1	10/3/01 11:17:00 PM
Indeno(1,2,3-cd)pyrene	ND	260		µg/Kg-dry	-1	10/3/01 11:17:00 PM
Benzo(g.h,i)perylene	ND	260		µg/Kg-dry	1	10/3/01 11:17:00 PM

Qualifiers:

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-221

Lab Order:

0109213

Project: 068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-08B

Matrix: SOIL

Analyses	Result	RL Qua	Lants	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	sv	V8081A			Analyst: RAF
alpha-BHC	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
beta-BHC	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
delta-BHC	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
gamma-BHC	ND	8.4	μg/Kg-dry	10	10/3/01 8:19:00 PM
Heptachlor	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
Aldrin	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
Heptachlor epoxide	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
Endosulfan I	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
alpha-Chlordane	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
gamma-Chlordane	ND	8.4	µg/Kg-dry	10	10/3/01 8:19:00 PM
Dieldrin	ND	1.7	μg/Kg-dry	10	10/3/01 8:19:00 PM
4,4'-DDE	ND	17	μg/Kg-dry	10	10/3/01 8:19:00 PM
Endrin	ND	17	μg/Kg-dry	10	10/3/01 8:19:00 PM
Endosulfan II	ND	17	µg/Kg-dry	10	10/3/01 8:19:00 PM
4,4 -DDD	ND	17	µg/Kg-dry	10	10/3/01 8:19:00 PM
Endrin aldehyde	ND	17	µg/Kg-dry	10	10/3/01 8:19:00 PM
Endrin ketone	ND	17	μg/Kg-dry	10	10/3/01 8:19:00 PM
Endosulfan sulfate	ND	17	μg/Kg-dry	10	10/3/01 8:19:00 PM
4,4 '-DDT	31	17	μg/Kg-dry	10	10/3/01 8:19:00 PM
Methoxychlor	ND	84	μg/Kg-dry	10	10/3/01 8:19:00 PM
Toxaphene	ND	260	μg/Kg-dry	10	10/3/01 8:19:00 PM
Technical Chlordane	ND	260	µg/Kg-dry	10	10/3/01 8:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project:

068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-09B

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES	sv	V8081A				Analyst: RAF
alpha-BHC	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
beta-BHC	ND	8.5		μg/Kg-dry	10	10/3/01 8:46:00 PM
delta-BHC	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
gamma-BHC	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
Heptachlor	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
Aldrin	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
Heptachlor epoxide	ND	8.5		μg/Kg-dry	10	10/3/01 8:46:00 PM
Endosulfan I	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
alpha-Chiordane	ND	8.5		μg/Kg-dry	10	10/3/01 8:46:00 PM
gamma-Chlordane	ND	8.5		µg/Kg-dry	10	10/3/01 8:46:00 PM
Dieldrin	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
4.4'-DDE	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
Endrin	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
Endosulfan II	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
4.4'-DDD	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
Endrin aldehyde	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
Endrin ketone	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
Endosulfan sulfate	ND	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
4.4'-DDT	27	17		µg/Kg-dry	10	10/3/01 8:46:00 PM
Methoxychlor	ND	85		µg/Kg-dry	10	10/3/01 8:46:00 PM
Toxaphene	ND	270		μg/Kg-dry	10	10/3/01 8:46:00 PM
Technical Chlordane	ND	270		µg/Kg-dry	10	10/3/01 8:46:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

Date: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-221

Lab Order:

0109213

Project:

068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-08B

Matrix: SOIL

				minutes and the second	
Analyses	Result	RL (Qual Units	DF	Date Analyzed
PCBS BY EPA8082	sv	V8082			Analyst: RAF
Aroclor 1016	ND	26	μg/Kg-	dry 1	10/3/01 8:51:00 PM
Aroclor 1221	ND	26	μg/Kg-	dry 1	10/3/01 8:51:00 PM
Aroclor 1232	ND	26	μg/Kg-	dry 1	10/3/01 8:51:00 PM
Aroclor 1242	ND	26	µg/Kg-	dry 1	10/3/01 8:51:00 PM
Aroclor 1248	ND	26	μg/Kg-	dry 1	10/3/01 8:51:00 PM
Aroclor 1254	ND	26	μg/Kg-	-dry 1	10/3/01 8:51:00 PM
Aroclor 1260	140	26	μg/Kg-	-dry 1	10/3/01 8:51:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Method prescribed holding time exceeded

- See Case Narrative

frate: 08-Oct-01

CLIENT:

Stone & Webster Construction Co.

Client Sample ID: DLRP-SP-222

Lab Order:

0109213

Project: 068511000 Devens Landfill

Collection Date: 9/27/01

Lab ID:

0109213-09B

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
PCBS BY EPA8082	SV	V8082			Analyst: RAP
Aroclor 1016	ND	27	μg/Kg-dry	1	10/3/01 9:17:00 PM
Aroclor 1221	ND	27	µg/Kg-dry	1	10/3/01 9:17:00 PM
Aroclor 1232	ND	27	µg/Kg-dry	1	10/3/01 9:17:00 PM
Aroclor 1242	ND	27	μg/Kg-dry	1	10/3/01 9:17:00 PM
Aroclor 1248	ND	27	µg/Kg-dry	1	10/3/01 9:17:00 PM
Aroclor 1254	ND	27	µg/Kg-dry	1	10/3/01 9:17:00 PM
Aroclor 1260	110	27	μg/Kg-dry	1	10/3/01 9:17:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

= - See Case Narrative

08-Oct-01

AMRO Environmental Laboratories Corp.

Lab Order:

0109213

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Analysis Dat	Prep Date	TCLP Date	Test Name	Matrix	Collection Date	Client Sample ID	Sample ID
10/1/0	9/26/01		VOLATILES by GC/MS, Medium-Level	Soil	9/26/01	DLRP-SP-217	0109213-05A
10/2/0	9/28/01		ICP METALS, 3051/6010				0109213-05B
10/1/0	10/1/01		MERCURY, Soil				
10/3/0	9/29/01		ORGANOCHLORINE PESTICIDES				
10/3/0	9/29/01		PCBS IN SOIL/SOLIDS				
9/28/0			Percent Moisture				
10/3/0	10/1/01		SVOC + Pyridine, Soil/Solids				
10/1/0	9/26/01		VOLATILES by GC/MS, Medium-Level			DLRP-SP-218	0109213-06A
10/2/0	9/28/01		ICP METALS, 3051/6010				0109213-06B
10/1/0	10/1/01		MERCURY, Soil				
10/3/0	9/29/01		ORGANOCHLORINE PESTICIDES				
10/3/0	9/29/01		PCBS IN SOIL/SOLIDS				
9/28/0			Percent Moisture				
10/4/0	10/1/01		SVOC + Pyridine, Soil/Solids				
10/4/01	10/1/01		SVOC # Pyridine, Soil/Solids				
10/2/0	9/26/01		VOLATILES by GC/MS, Medium-Level			DLRP-SP-219	0109213-07A
10/2/01	9/28/01		ICP METALS, 3051/6010				0109213-07В
10/1/01	10/1/01		MERCURY, Soil				
10/3/01	9/29/01		ORGANOCHLORINE PESTICIDES				
10/3/01	9/29/01		PCBS IN SOIL/SOLIDS				
9/28/01			Percent Moisture				
10/3/01	10/1/01		SVOC + Pyridine, Soil/Solids				
10/1/01	9/26/01		VOLATILES by GC/MS, Medium-Level		9/27/01	DLRP-SP-221	0109213-08A
10/2/01	9/28/01		ICP METALS, 3051/6010				0109213-0813
10/1/01	10/1/01		MERCURY, Soil				
10/3/01	9/29/01		ORGANOCHLORINE PESTICIDES				
10/3/01	9/29/01		PCBS IN SOIL/SOLIDS				
			Percent Moisture				

08-Oct-01

AMRO Environmental Laboratories Corp.

Lab Order:

0109213

Client:

Stone & Webster Construction Co.

Project:

068511000 Devens Landfill

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0109213-08B	DLRP-SP-221	9/27/01	Soil	SVOC + Pyridine, Soil/Solids		10/1/01	10/3/01
				SVOC + Pyridine, Soil/Solids		10/4/01	10/5/01
0109213-09A	DLRP-SP-222			VOLATILES by GC/MS, Medium-Level		9/26/01	10/1/01
0109213-09B				ICP METALS, 3051/6010		9/28/01	10/2/01
				MERCURY, Soil		10/1/01	10/1/01
				ORGANOCHLORINE PESTICIDES		9/29/01	10/3/01
				PCBS IN SOIL/SOLIDS		9/29/01	10/3/01
				Percent Moisture			9/28/01
				SVOC + Pyridine, Soil/Solids		10/1/01	10/3/01

SAMPLE RECEIPT CHECKLIST

111 Herrick Stree Merrimack, NH 0305

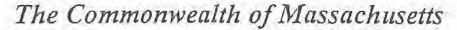
Client: STONE 2 WEBSTER Project Name: 068511000 DEVENS LANDFILL PROT	AMRO III Date Re		0109213 9-27-01			
Ship via: (circle one) Fed Ex., UPS AMRO Couner	Date Du	e:				
Hand Del., Other Courier, Other:						
Items to be Checked Upon Receipt	Yes	No	NA I	Comments		
Army Samples received in individual plastic bags?			1./			
2. Custody Seals present?						
3. Custody Seals Intact?		-				
4. Air Bill included in folder if received?	1		1			
5. Is COC included with samples?	11	-				
6. Is COC signed and dated by client?	1					
7. Laboratory receipt temperature. TEMP = 4°			-			
Samples rec. with ice ice packsneither	-		-			
Were samples received the same day they were sampled?	1	~		0/0/-11/0/02		
Is client temperature 4°C ± 2°C?	-		-	9/26 and 9/27		
If no obtain authorization from the client for the analyses.	1					
	-	-	-			
Client authorization from: Date: Obtained by:	-	-				
9. Is the COC filled out correctly and completely?	V		1	· · · · · · · · · · · · · · · · · · ·		
10. Does the info on the COC match the samples?	V					
11. Were samples rec. within holding time?	-					
12. Were all samples properly labeled?	1					
13. Were all samples properly preserved?	-		1			
14. Were proper sample containers used?	1	-				
15. Were all samples received intact? (none broken or leaking)	V	-				
16. Were VOA vials rec. with no air bubbles?			1			
17. Were the sample volumes sufficient for requested analysis?	1		1			
18. Were all samples received?						
19. VPH and VOA Soils only:			4			
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight Sampling Method VOA (circle one); M=Methanol, SB=Sodium Bisulfa If M or SB:			Bulk			
Does preservative cover the soil?						
If NO then client must be faxed.	-					
Does preservation level come close to the fill line on the vial?	V		1			
If NO then client must be faxed.	-					
Were vials provided by AMRO?	1					
If NO then weights MUST be obtain	ined from	client	1			
Was dry weight aliquot provided?	1					
If NO then fax client and inform th	ne VOA lal	b ASAP				
20. Subcontracted Samples:	122		11			
What samples sent:						
Where sent						
Date:						
Analysis:						
TAT:						
21. Information entered into:						
Internal Tracking Log?	1					
Dry Weight Log?	1					
			1			
Client Log?	1					
Client Log? Composite Log?		-				

CHAIN-OF-CUSTODY RECORD

41120

Office: (603) 424-2022 Fax: (603) 429-8496

Project No.: (All C	Project No.: (/ / Project Name: , , v / / /		Project Manager:			Samplers	(Signature):	AMRO Project No.:				
		4 31.5.6						1.50		1 146	(471)	
	Project State:	,			1 10 %	1714	$-i^{\circ}$, t	1 17	if i			
Sample ID	Date/Time	Matrix	Total #				A	nalysis F	Requir	ed -		Remarks
	Sampled	A= Air S= Soil GW= Ground W WW= Waste W DW= Drinking W O= Oil Other= Specify	of Cont. & Size									
,	41.10	• 1		2								
		V.										
		j										
		- 8										
i	, <u>4</u>	* 1										
	, j											
	3 -15 4											
<u> </u>	12011				12/2							
Preservative: CI-HCl, MeOH, N-I			r)		H	1 0-1						
Container Type: P- Plastic, G-Gl												
Please print clearly, legibly and logged in and the turnaround ti ambiguities are resolved.			FAX No.:	1							reporting limits	s, Known Contamination, etc;
Send Results To:										law.		OW A
(TAR	or to							Seal Intact		GW-1	GW-2	GW-3
1 1 1 1 1 1	1 1/1 1							Yes No	N/A	MCP Level	Needed:	
Relinquished By	Date/ Time	Re	eceived By		Da	te/Time	ı	P.O. No:				
L where	A der mi	1 /1/1/2	A. 4		3 / y -y	3 · y)	155	Results Needed		Before submitt	ing samples for	TIME AUTHORIZATION expedited TAT, you must have requested
Ť.	-						11			in advance and received a coded TAT AUTHORIZATION NUMBER AUTHORIZATION NoBY:		
It like	9/27/01	, j. 7e									SHEET	OF
White: Lab Co,	Yellow: Accomp	oanies Report	P	ink: Cla	ору							





Department of Environmental Protection Division of Environmental Analysis Senator William X. Wall Experiment Station

certifies

M-NH012

AMRO ENVIRONMENTAL LAB 111 HERRICK ST MERRIMACK, NH 03054-0000

Laboratory Director: Nancy Stewart

for the analysis of NON POTABLE WATER (CHEMISTRY)
POTABLE WATER (CHEMISTRY)

pursuant to 310 CMR 42.00

This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.

This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.

Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.

Issued:

01 JUL 2001

Vicar Q. Jarole

Expires:

30 JUN 2002

Director, Division of Environmental Analysis

COMMONWEALTH OF MASS ACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of:

01 JUL 2001

M-NH012

AMRO ENVIRONMENTAL LAB

MERRIMACK NH

NON POTABLE WATER (C	THEIVISTRY)	Effective Date	01 JUL 2001	Expiration Date	30 JUN 2002
<u> 4</u>	Analytes and Methods				*
ALUMINUM	EPA 200.7		NITRATE-N		EPA 353.2
ANTIMONY	EPA 200.7		KJELDAHL-N		EPA 351.1
ANTIMONY	EPA 204.2		KJELDAHL-N		EPA 351.2
ARSENIC	EPA 200.7		ORTHOPHOSPHATE		EPA 365.2
ARSENIC	EPA 206.2		ORTHOPHOSPHATE		EPA 300.0
ARSENIC	ASTM D2972	2-93(C)	TOTAL PHOSPHORUS		EPA 365.2 \
BERYLLIUM	EPA 200.7		CHEMICAL OXYGEN DE	EMAND ON AME	EPA 410.4
CADMIUM	EPA 200.7		CHEMICAL OXYGEN DE	EMA ND	HACH METHOD 8000
CHROMIUM	EPA 200.7		BIOCHEMICAL OXY GEN	DEMAND	EPA 405.1
COBALT	EPA 200.7		TOTAL CYANIDE		EPA 335.2
COPPER	EPA 200.7		NON-FILTERABLE RESI	DUE	EPA 160.2
IRON	EPA 200.7		TOTAL RESIDUAL CHLO	ORINE	SM 4500-CL-G
LEAD	EPA 200.7		OIL AND GREASE	.,	EPA 413,1
LEAD	EPA 239.2		TOTAL PHENOLICS		EPA 420.1
MANGANESE	EPA 200.7		VOLATILE HALOCARB	ONS	EPA 624
MERCURY	.EPA 245.1		VOLATILE AROMATICS	3	EPA 624
MOLYBDENUM	EPA 200.7		CHLORDANE		EPA 608
NICKEL.	EPA 200.7		ALDRIN		EPA 608
SELENIUM	EPA 200.7		DIELDRIN		EPA 608
SELENIUM	EPA 270.2		DDD		EPA 608
SLVER	EPA 200.7		ODT	-1	EPA 608
STRONTIUM	EPA 200.7		HEPTACHLOR		EPA 608
THALLIUM	EPA 200.7		HEPTACHLOR EPOXIDE		EPA 608
THALLIUM	EPA 279.2		POLYCHLORINATED BI	PHENYLS (WATER)	EPA 608
ZINC	₽A 200.7		POLY CHLORINATED BI	PHENYLS (OIL)	EPA 600/4-81-045
PH	EPA 150.1				
SPECIFIC CONDUCTIVITY	EPA 120.1				
TOTAL DISSOLVED SOLIDS	EPA 160.1				
TOTAL HARDNESS (CACO3)	EPA 200.7				
CALCIUM	EPA 200.7				
MAGNESIUM	EPA 200.7				
SODIUM	EPA 200.7				
POTASSIUM	EPA 200.7				
TOTAL ALKALINITY	EPA 310.1				
CHLORIDE	EPA 325.3				
CHLORIDE	EPA 300.0				
FLUORIDE	EPA 340.2				
FLUORIDE	EPA 300.0				
SULFATE	EPA 375.4				
SULFATE	EPA 300.0				
AMMONIA-N	EPA 350.2				
NITRATE-N	EPA 300.0				

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of:

01 JUL 2001

M- NH012

AMRO ENVIRONMENTAL LAB

MERRIMACK NH

POTABLE WATER (CHEVISTRY)		Effective Date	01 JUL 2001	Expiration Date	30 JUN 2002
Analytes	and Methods	Date		Date	
ANTIMONY	EPA 200.9				
ARSENIC	EPA 200.7				
ARSENIC	EPA 200.9				
BARIUM	EPA 200.7				
BERYLLIUM	EPA 200.7				1
CADMIUM	EPA 200.7				
CHROMIUM	EPA 200.7				
COPPER	EPA 200.7				
LEAD	EPA 200.9				
MERCURY	EPA 245.1				
NICKEL	EPA 200.7				
SELENIUM	EPA 200.9				
			-		
THALLIUM	EPA 200.9				
NITRATE-N	EPA 353.2				
NITRITE-N	EPA 353.2				
FLUORIDE	EPA 300.0			*	
FLUORIDE	SM 4500-F-E				00
SULFATE	EPA 300.0				
CYANIDE	SM 4500-CN-C,E				
TURBIDITY	EPA 180.1	*			
RESIDUAL FREE CHLORINE	SM 4500-CL-G			- 1 -41	
CALCIUM	EPA 200.7				
TOTAL DISSOLVED SOLIDS	SM 2540C				
PH	EPA 150.1		5		
1,2-DIBROMOETHANE	EPA 504.1				
1,2-DIBROMO-3-CHLOROPROPANE	EPA 504.1				

APPENDIX 18

Lot 9 Backfill Analytical Data

Date: 16-Oc:-00

CLIENT:

COASTAL Environmental Corporation

Lunnenburg Pit (Clay Fill)

Project:

Devins Landfill Project

Lab Order:

caraca Landini III

Date Received:

0010034-01D

0010034

10/4/CO

Work Order Sample Summary

10/4/00

Lab Sample ID	Client Sample ID	Collection Date
0010034-01A	Lunnenburg Pit (Clay Fill)	10/4/00
0010034-01B	Lunnenburg Pit (Clay Fill)	10/4:00
0010034-01C	Lunnenburg Pit (Clay Fill)	10/4/00

BACKFILL BURROW SOURCE ASSESSMENT SAMPLE RESULTS

Date: 16-Oct-00

CLIENT:

COASTAL Environmental Corporation

Client Sample ID: Lunnenburg Pit (Clay Fill)

Lab Order:

0010034

Project:

Devins Landfill Project

Lab ID:

0010034-0:A

Collection Date: 10/4/00

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	
MERCURY, TCLP		SW7470				Analyst: GM	
Mercury	ND	3.00020		mg/L	1	10/11:00	
ICP METALS, TOLP LEACHED		SW1311/60	10B			Analyst: RK	
Arsenic	ND	1.0		mg/L	1	10/10/00 12:39:16 PM	
Barium	ND	2.0		mg/L	1	10/10/00 12:39:18 PM	
Cadmium	CN	0.10		mg/L	1	1C/10/00 12:39:15 FM	
Chromium	ND	0.10		mg/L	1	10/10/00 12:39:18 PM	
Lead	ND	1.0		mg/L	1	10/10/00 12:39:16 PM	
Selenturn	ND	0.58		mg/L	1	10/10/00 12:39:16 FM	
Silver	ND	0.10		mg/L	1	1C/10/00 12:39:18 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

! - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminent Level

S - Spike Recovery outside accepted recovery lumins

R - RFD outside accepted recovery limits

E - Value above quantitation range

- See Case Namelive

Date: 16-Oct-00

CLIENT:

COASTAL Environmental Corporation

Client Sample ID: Lunnenburg Pit (Clay Fill)

Lab Order:

0010034

Project: Devins

Devins Landfill Project

Collection Date: 10/4/00

Lab ID:

0010034-01B

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
PERCENT MOISTURE	Da	216			Analyst: CH
Percent Molsture	7.5	i)	wt%	1	10/9/00

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

I - Analyte detected below quantitation librats

K - RPD outside accepted recovery limits

B - Analyte detected in the associated Memoc Blank

E - Value apove quantitation rango

* - Value exceeds Maximum Contammant Level

+ - See Case Namative

Date: 16-Oct-06

CLIENT:

COASTAL Environmental Corporation

Lab Order:

0010024

Project:

Devins Landfill Project

Lab ID:

0010034-01D

Client Sample ID: Lunnenburg Pit (Clay Fill)

Collection Date: 10/4/00

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed		
VOLATILES, TCLP LEACHED	S	W1311/82		Analyst: JSL				
1,1-Dichlorcethene	ND	0.020		mg/L	10	10/11/00 5:20:00 PM		
1,2-Dichlorcethane	ND	0.020		mg/L	10	1C/11/00 5:20:00 PM		
1,4-Dictilorobenzene	ND	0.020		mg/L	10	10/11/00 5:20:00 PM		
2-Butanone	ND	0.10		mg/L	10	1C/11:00 5:20:00 PM		
Benzene	ND	0.020		mg/L	10	10/11/00 5:20:00 PM		
Carbon tatrachloride	ND	0.020		mg/L	10	10/11/00 5:20:00 PM		
Chlorobenzene	ND	0,020		mg/L	10	10/11:00 5:20:00 PM		
Chloroform	ND	0.020		mg/L	10	10/11/00 5:20:00 PM		
Tetrachioroethene	ND	0.020		mg/L	10	1C/11/00 5:20:00 PM		
Trichiproethene	ND	3.020		mg/L	10	1C/11/00 5:20:00 PM		
Vinyl caloride	ND	0.020		mg/L	10	1C/11/00 5:20:CO PM		
Surr. 1,2-Dichloroethane-d4	81.4	37-123	S	%REC	10	1C/11/00 5:20:00 PM		
Sum 4-Bromofivorocenzene	94.0	72-103		%REC	10	10/11/00 5:20:C0 PM		
Sur. Dipremoflucromethane	88.5	9320	\$	%REC	13	1C/11/00 5:20 CO PM		
Surn Toluene-d8	94 7	93*, 08		%REC	10	10/11/00 5:20 CO PM		

Qualifiers

ND - Not Detected at the Reporting Lastit

I - Analyte detected below quantitation limits

B - Analyte cotested in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Lavel

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

^{# -} See Case Narrative

RL - Reporting Limit, cofined as the lowest concentration the laboratory can accurately quantitate

Date: 16-0c1-00

CLIENT:

COASTAL Environmental Corporation

0010034

Project:

Lab Order:

Devins Landfill Project

Lab ID:

0010034-01C

Client Sample ID: Lunnenburg Pit (Clay Fill)

Collection Date: 10/4/00

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	
GASOLINE RANGE ORGANICS (MO	DDIFIED 8260B	SW8280B				Analyst LN	
Gasoline Range Organics	CN	1.7		mg/Kg-dry	1	10/9/00 8:02:50 PM	
Sur: Dibromofluoromethane	121	66-121		%REC	1	10/9/00 8:02:00 PM	
Surr: 1,2-Dichloroethane-q4	133	84-125	S	%REC	1	10/9/00 8:02 00 FM	
Surr. Toluene-d8	117	57-124		%REC	1	10/9/00 8:02 00 PM	
Surr. 4-Bromofiucropanzene	114	52-119		%REC	1	10/9/00 8:02:00 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Methoc Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrabve

Date: 16-Oct-00

CLIENT:

COASTAL Environmental Corporation

Client Sample ID: Lunnenburg Pit (Clay Fill)

Lab Order:

0010034

Project: Lab ID: Devins Landfill Project

0010034-01D

Collection Date: 10/4/00

Matrix: SOIL

Analyses	Result	RL Qual	Units	DF	Date Analyzed		
SEMIVOLATILES, TOLP LEACHED	s	W1311/8270C			Analyst: KD		
Pyridina	ND	0.080	mg/L	1	10/11/00 11:56:00 AM		
1.4-Dichlorobenzene	ND	0 040	mg/L	1	10/11/00 11:55:00 AM		
Hexachloroethane	ND	0.040	mg/L	1	10/11/00 11:56:00 AM		
Nitroberizene	ND	0.040	mg/L	+	10/11/C0 11:56:0C AM		
Hexachlorobutadiene	ND	3.040	mg/L	1	10/11/00 11:56:00 AM		
2,4 8-Trichlorophenoi	ND	0.040	mg/L	1	10/11/00 11:56:00 AM		
2,4.5-Trichlorophenol	ND	0.040	mg/L	1	10/11/00 11:56:00 AM		
2,4-Dinitrotoluene	ND	0.040	mg/L	4	10/11/00 11:56:CO AM		
Hexach orobenzene	ND	0.040	mg/L	4.1	10/11:00 11:56:CO AM		
Pentachlorophenol	ND	0.080	mg/L	1	10/11/00 11:56:00 AM		
Crescis Total	ND	0.040	mg/L	1	10/11/00 11:56:00 AM		
Surr. 2-Ficorophenol	443	21-74	%REC	1	10/11/00 11:56:00 AM		
Surr Fhenol-d5	27.4	15-50	%REC	1	10/11/00 11:56:00 AM		
Surr. Nitrobenzene-d5	63.2	38-114	%REC	1	10/11/00 11:56:00 AM		
Surr. 2-F!ucrobiphenyi	74.5	42-06	%REC	1	10/11/00 11:56:00 AM		
Sum 2,4,6-Tribromophenol	71.5	41.129	%REC	1	10/11/00 11:56:00 AM		
Surr. 4-Terphenyl-d14	£5.0	35-117	%REC	1	10/11/00 11:56:00 AM		

Qualifiers:

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation himits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outs; oc accepted recovery limits

E - Value above quantitation range

- Sec Case Nerrenve

Date: 16-Oct-60

CLIENT:

COASTAL Environmental Corporation

Client Sample ID: Lunnenburg Pit (Clay Fiil)

Lab Order:

0010034

Devins Landfill Project

Collection Date: 10/4/00

Project: Lab ID:

0010034-01D

Matrix: SOIL

				4 1			
Analyses	Result	RL	Qual Units		DF	Date Analyzed	
ORGANOCHLORINE PESTICIDES	S	W8081A				Analyst KEM	
alpha-BHC	ND	0.86		ug/Kg-dry	1	10/11/00 5:23:CO PM	
beta-BHC	ND	0.86		ug/Kg-dry	1	10/11/00 5:23:00 PM	
deta-BHC	ND	0.86		µg/Kg-dry	1	10/11/00 5:23:00 PM	
gamma-BHC	ND	0.86		ug/Kg-dry	1	10/11/00 5:23 00 PM	
Heptachlor	ND	0.86		µg/Kg-diry	1	10/11/00 5:23.00 PM	
Aldrin	ND	0.86		µg/Kg-dry	1	10/11/00 5:23:00 PM	
Heptschlor epoxide	ND	0.86		µg/Kg-dry	1	10/11/00 5:23.00 PM	
Endosulfan I	ND	0.86		ug/Kg-dry	1	10/11/00 5:23:00 PM	
sipha-Chierdane	ND	0.86		µg/Kg-dry	1	10/11/00 5:23:00 PM	
gamma-Chlordane	ND	0.85		ug/Kg-dry	1	10/11/00 5:23.00 PM	
Dieldrin	ND	1.7		ug/Kg-dry	1	10/11/00 5:23:00 PM	
4,4'-DDE	ND	1.7		ug/Kg-dry	1	10/11/00 5:23:00 PM	
Endrin	ND	1.7		ug/Kg-dry	1	10/11/00 5:23 00 PM	
Endosuifan II	ND	1.7		µg/Kg-dry	1	10/11/00 5:23:00 PM	
4,4'-DDD	CN	1.7		µg/Kg-diy	1	10/11/00 5:23 00 PM	
Endrin eldenyde	CN	1.7		µg/Kg-dry	1	10/11/00 5:23 00 PM	
Endrin ketone	СИ	17		µg/Kg-dry	1	10/11/00 5:23:00 PM	
Endosuifan sulfate	CM	1.7		µg/Kg-dry	1	10/11/00 5:23:00 FM	
4,4'-DDT	ND	1.7		µg/Kg-dry	1	10/11/00 5:23:00 FM	
Methoxychlor	ND	6.6		µg/Kg-dry	1	10/11/00 5:23:00 FM	
Toxaphene	ND	27		µg/Kg-dry	1	10/11/00 5:23:00 FM	
Technical Chlordane	ND	27		µg/Kg-dry	1	10/11/00 5:23:00 PM	
Surr. Tetrachloro-m-xylana	8-8	50-150		%REC	1	10/11/00 5:23:00 PM	
Surr. Decachloropiphenyl	70.8	41-154		%REC	1	10/11/00 5:23:00 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maxi, num Contuminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- Sec Case Narrative

Date: 15-Oct-00

Client Sample ID: Lumnenburg Pit (Clay Fill)

CLIENT:

COASTAL Environmental Corporation

Lab Order:

0010034

Project:

Lab ID:

Devins Landfill Project

0010034-01B

Collection Date: 10/4/00

Matrix: SOIL

Analyses	Result	RL	Qual U	nits	DF	Date Analyzed
DIESEL RANGE ORGANICS	S	W8015B				Analyst: MM
Diesei Range Organics	ND	54	m	g/Kg-dry	1	10/10/00 12:32:00 AM
Surr. 5-Terphenyl	94.5	60-140	%	REC	1	10/10/00 12:32:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

" - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Care Narrauve

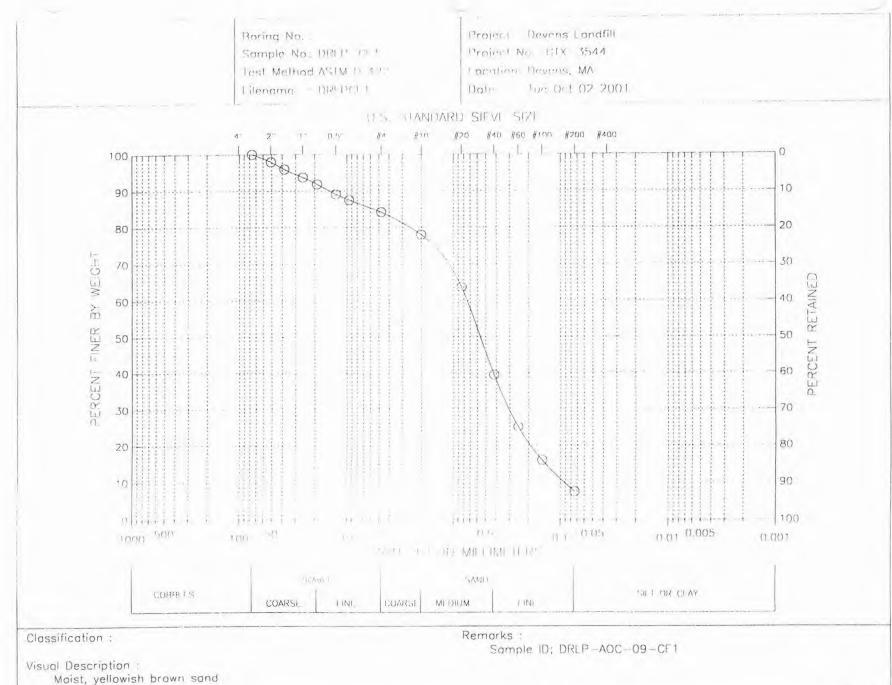
CHAIN OF "'ISTODY



Festing Express

1145 Mass Avenue, Boxborough, MA.01719
(978) 635-0424 Fax (978)635-0266

Company Name Stone	+Wel	157	res				Analys						Analys	SIS		
Address 45 Patton Conlact Jeff Shea Phone Number 978-784-09 Project Name Devens	Rd FOOFax	× 971	8-784-	0999	Sample Type 1 soil 2 geosynthelic 3 other	16 300011 31	Container Type I bucket 2 bag 3 jar 4 plastic 5 Tube									
Project Location A-yer, M Sample Indentification	Contai	ner	132	pling Time	Sample Type			MASIN	W. T. W.					Comments		
1)LRP- AOC-09-CF1		1	8/22	11:00	1-50.1		X	X								
11LRP-40609-CFZ		1	8/22	11:15	1-50,1		X	X						1		
				anniani anni a si sunniai piassi (te							+					
					-		1122-01		-							
	-	mane.			-						-			7.		
RELINDUISHED BY Shear			DATE: TIME: DATE:	812 1450	201	REC	EIVED BY	brain	Paca	dis	DATE:	3.00	1	BPECIAL INSTRUCTIONS RUSH number of days		
RELINQUISHED BY			TIME: DATE: TIME:				EIVED BY				DATE: TIME: DATE: TIME		4	STANDARD 13 days		
SHIPPED VIA							20.	8						\$ (1)		



Tue Oct 02 21:31:40 2001

Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : ---Sample No. : DRLP-CF1 Depth : ---

Test Date : 09/24/01 Test Method : ASTM D 422 Filename : DRLPCF1 Elevation : ---Tested by : tew Checked by : jdt

Location : Devens, MA

Soil Description : Moist, yellowish brown sand

Remarks : Sample ID; DRLP-AOC-09-CF1

A STATE OF THE PARTY.	A Contract C	A substitute of
COARSE	STEVE	SET

Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
		********	*******		
3"	2.996	76.10	0.00	0.00	100
2"	2.000	50.80	930.00	930.00	98
1.5"	1.500	38.10	914.00	1844.00	96
3 "	1.012	25.70	1027.00	2871.00	94
3.75"	0.748	19.00	855.00	3726.00	92
0.5"	0.500	12.70	1254.00	4980.00	89
0.375"	0.374	9.51	723.00	5703.00	88

Total Dry Weight of Sample = 45803

FINE SIEVE SET

Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer *
#4	0.187	4.75	10.78	10.78	84
#10	0.079	2.00	20.35	31.13	78
#20	0.033	0.84	46.35	77.48	6.4
#40	0.017	0.42	78.42	155.90	35
#6.	0.010	0.25	46.05	201.95	25
#100	0.006	0.15	29.87	231.82	16
#200	0.003	0.07	27.21	259.03	В
Pan			24.27	283.30	70

Total Dry Weight of Sample = 292.94

D95 . 5.5913 mm

D60 : 0.7585 mm

D50 : 0.5695 mm

D30 - N/A

D15 : N/A

D10 - 0.0911 mm

Soil Classification

ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

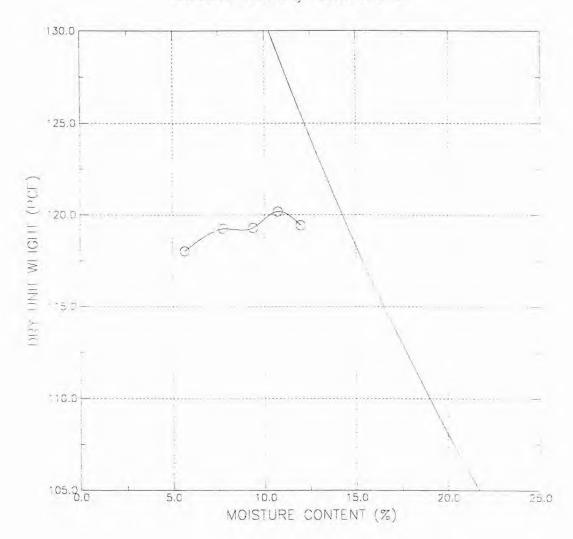
Boring No. Sample No. : DRLP-CF1

Test Method: ASTM D 698 Filename : DRLPCF1

Project : Devens Landfill Project No.: G X-3544 Location : Devens, MA

Test Date : 09/24/01

Moisture-Density Relationship



Sample Description

: Moist, yellowish brown sand

Compaction Test Designation : ASTM D698-A

Maximum Dry Density

: 120.2 PCF

Optimum Moisture Content

: 10.8 %

Corrected Maximum Dry Density

: 125.4 PCF

Corrected Optimum Moisture Content

: 9.2%

Tue Oct 02 21:33:11 2001

Page: 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : ---

Sample No. : DRLP-CF1

Depth : ---Test Date : 09/24/01

Test Method : ASTM D 698

Elevation : ---Tested by : tew Checked by : jdt

Filename : DRLPCF1

Location : Devens, MA

Soil Description : Moist, yellowish brown sand

Remarks : Sample ID; DRLP-AOC-09-CF1

COMPACTION TEST

Mold ID

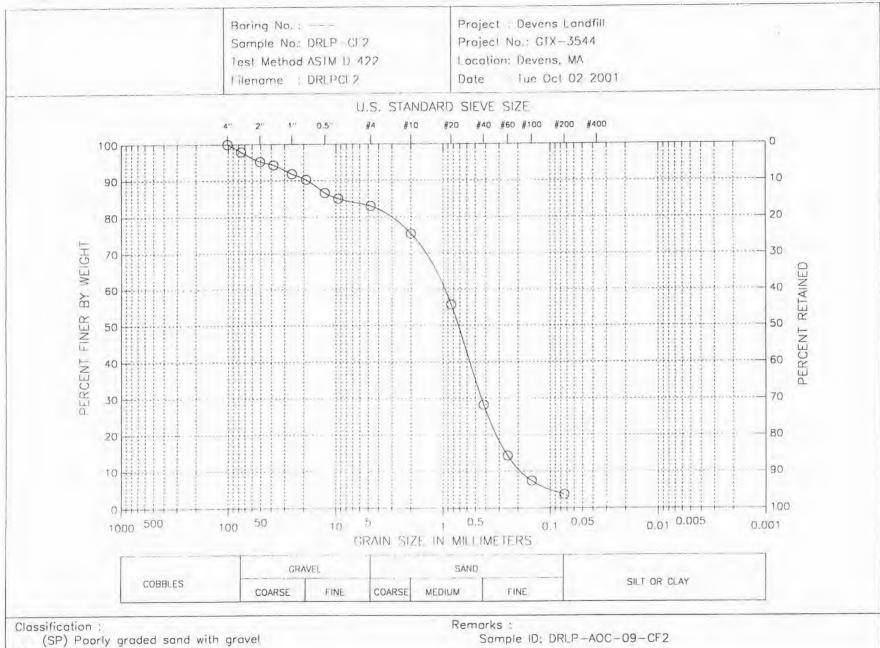
Method Used : ASTM D698-A Volume of Mold : 0.0333 ft³ Mass of Mold : 4951 gm Specific Gravity: 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
	~****		**********			
wolfe	8.27	240.39	227.93	6835.00	5.7	118.0
xa75	9.78	233,98	217.84	6892.00	7.8	119.3
sr47	9.69	254.42	233.42	6922.00	9,4	119.3
k24	9.66	209.68	190.30	6961.00	10.7	120.2
btp3	9.12	213.00	191.20	6971.00	12.0	119.4
	Optimum Dry Densit Optimum Moisture (

Oversize correction (16% > #4 sieve):

Corrected Maximum Dry Density : 125.4 PCF

Corrected Optimum Moisture Content : 9.2%



Visual Description

Moist, yellowish brown sand with gravel

Tue Oct 02 21:31:40 2001

Page 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : ---Sample No. : DRLP-CF2 Location : Devens, MA Depth : ---

Test Date : 09/24/01 Test Method : ASTM D 422

Test Method : ASIM D 422

Soil Description : Moist, yellowish brown sand with gravel Remarks : Sample ID; DRLP-AOC-09-CF2

Filename : DRLPCF2

Elevation : ---Tested by : tew Checked by : jdt

		COAL	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer
+8+3508**8			*****		
4"	4.000	101.60	0.00	0.00	100
3"	2.996	76.10	994.00	994.00	98
2"	2.000	50.80	1330.00	2324.00	95
1.5"	1.500	38.10	467.00	2791.00	94
10	1.012	25.70	1197.00	3988.00	92
0.75"	0.748	19.00	760.00	4748.00	90
0.5"	0.500	12.70	1772.00	6520.00	87
0.375"	0.374	9.51	772.00	7292.00	85

Total Dry Weight of Sample = 48691

FIN	CT	27.7	CD	177

		**	TILD DIDIE COL		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
		********			******
#4	0.187	4.75	4.63	4.63	83
#10	0.079	2.00	17.52	22,15	75
#20	0.033	0.84	45.34	67.49	56
#40	0.017	0.42	62.95	130.44	28
#60	0.010	0.25	32.09	162,53	14
#100	0.006	0.15	15.81	178.34	7
#200	0.003	0.07	8.40	186.74	4
Pan			8,52	195.26	0

Total Dry Weight of Sample = 203.28

D85 : 9.4320 mm D60 : 1.0185 mm

D50 : 0.7291 mm D30 : N/A

D15 : N/A D10 : 0.1816 mm

Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand with gravel

AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---

Sample No. : DRLP-CF2
Test Method: ASTM D 698

Filenome :

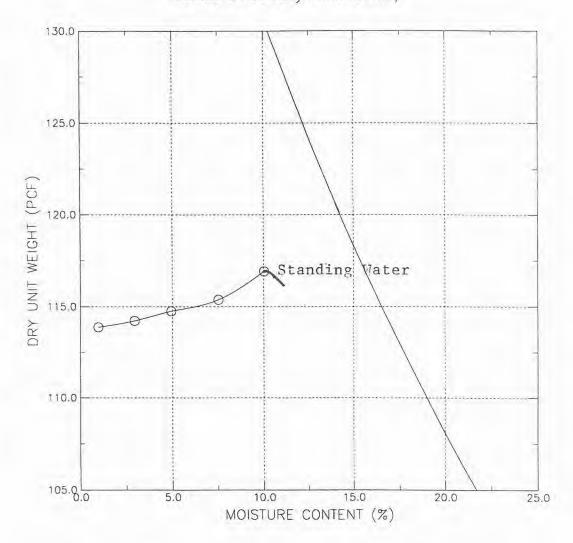
: DRLPCF2

Project : Devens Landfill

Project No.: GTX-3544 Location : Devens, MA

Test Date : 09/24/01

Moisture-Density Relationship



Sample Description

: Moist, yellowish brown sand with gravel

Compaction Test Designation : ASTM D698-A Maximum Dry Density : 116.9 PCF Optimum Moisture Content : 10.0 %

Corrected Maximum Dry Density Corrected Optimum Moisture Content : 122.7 PCF

: 8.5%

Tue Oct 02 21:33:11 2001

Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : ---

Sample No. : DRLP-CF2 Location : Devens, MA

Depth : ---

Test Date : 09/24/01

Test Method : ASTM D 698

Elevation : ---Tested by : tew Checked by : jdt

Filename : DRLPCF2

Soil Description : Moist, yellowish brown sand with gravel Remarks : Sample ID; DRLP-AOC-09-CF2

COMPACTION TEST

Mold ID

Method Used : ASTM D698-A Volume of Mold : 0.0333 ft^3 Mass of Mold : 5263 gm Specific Gravity: 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)

b160	9.27	200.28	198.42	7000.00	1.0	113.9
mls3	8.08	207.44	201.75	7039.00	2.9	114.2
mop	8.11	207.43	198.04	7082.00	4.9	114.8
guns	8.18	208.35	194.33	7137.00	7.5	115.4
sun	9.67	207.30	189.30	7206.00	10.0	116.9
Or	timum Dry Densi	ty = 116.9 PCF				
Or	timum Moisture	Content = 10.0 %				

Oversize correction (17% > #4 sieve):

Corrected Maximum Dry Density : 122.7 PCF

Corrected Optimum Moisture Content : 8.5%

Project : Devens Landfill Boring No. DLRP Sample No.: AOC9 CF4 Project No.: GIX-3544 Test Method ASTM 1) 422 Location: - -Date Fri May 24 2002 Filename : AOC9CF4 U.S. STANDARD SIEVE SIZE 0.5 #20 #40 #60 #100 #200 #400 100 1 10 20 80 BY WEIGHT 30 PERCENT RETAINED 40 PERCENT FINER 50 70 80 20 90 100 1000 500 0.1 0.05 0.01 0.005 1) 15 100 0.001 GRAIN SIZE IN MILLIMETERS GRAVLL SAND COBBLES SILT OR CLAY COARSE FINE COARSE MEDIUM FINE

Classification:

Remarks :

Visual Description

Moist, dark brown sand with silt and gravel

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544
Boring No. : DLRP
Sample No. : AOC9-CF4

Depth : ---

Test Date : 05/20/02 Test Method : ASTM D 422 Filename: AOC9CF4
Elevation: --Tested by: jlg
Checked by: jdt

Location : ---

Soil Description : Moist, dark brown sand with silt and gravel

Remarks : ---

		COA	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
	*****		*******		
2"	2.000	50.80	0.00	0.00	100
1.5"	1.500	38.10	474.00	474.00	97
1"	1.012	25.70	314.00	788.00	96
0.75"	0.748	19.00	329.00	1117.00	94
0.5"	0.500	12.70	615.00	1732.00	90
0.375"	0.374	9.51	383.00	2115.00	88
#4	0.187	4.75	1259.00	3374.00	81

FINE SIEVE SET Sieve Openings Weight Cumulative Percent Mesh Inches Millimeters Retained Weight Retained Finer (gm) 15 #8 0.093 2.36 21.71 21.71 77 0.047 1.19 47.93 69.64 68 #30 0.023 0.60 104.63 174.27 48 #50 0.012 0.30 120.84 295.11 0.15 #100 0.006 65.68 360.79 11 #200 0.003 0.07 22.58 383.37 36.78 420.15

Total Dry Weight of Sample = 428.24

Total Dry Weight of Sample = 17965

D85 : 6.9080 mm
D60 : 0.9122 mm
D50 : 0.6475 mm
D30 : 0.3514 mm
D15 : 0.1801 mm
D10 : 0.1176 mm

Soil Classification

ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-a(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : DLRP

Sample No. : AOC9-CF4

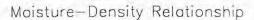
Test Method: ASTM D 698

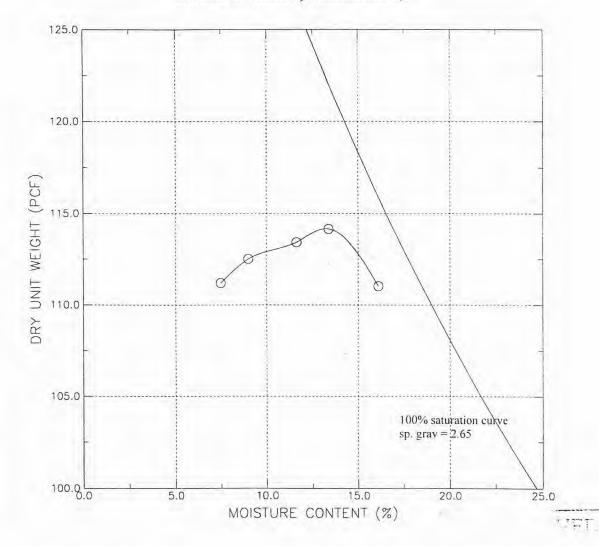
Filename : AOC9CF4 Project : Devens Landfill

Project No.: GTX-3544

Location : ---

Test Date : 05/20/02





Sample Description

: Moist, dark brown sand with silt and grave!

Compaction Test Designation : ASTM D698-A

Maximum Dry Density

: 114.2 PCF

Optimum Moisture Content

Corrected Maximum Dry Density

: 120.7 PCF

Corrected Optimum Moisture Content

: 10.9%

Fri May 24 12:46:49 2002

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GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : DLRP Sample No. : AOC9-CF4 Depth : ---

Test Date : 05/20/02 Test Method : ASTM D 698 Filename : AOC9CF4 Elevation : ---Tested by : jlg Checked by : jdt

Location : ---

Soil Description : Moist, dark brown sand with silt and gravel

Remarks : ---

COMPACTION TEST

Mold ID

Method Used : ASTM D698-A Volume of Mold : 0.0333 ft^3 Mass of Mold : 5264 gm Specific Gravity : 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)

twit	8.01	232.49	216.88	7069.00	7.5	111.2
ecoenv	8.31	245.98	226.39	7116.00	9.0	112.5
jolly	8.17	255.14	229.45	7176.00	11,6	113.4
bubba3	8.18	259.90	230.18	7219.00	13.4	114.1
bibba5	8.18	253.86	219.78	7211.00	16.1	111.0
0-	skinus Des Deseile	114 2 DCD				

Optimum Dry Density = 114.2 PCF Optimum Moisture Content = 13.2 %

Oversize correction (19% > No. 4 sieve):

Corrected Maximum Dry Density

: 120.7 PCF

Corrected Optimum Moisture Content

: 10.9%

STOLL STOLL

GeoTesting Express, Inc.

Boxborough, MA + (978) 635-7424

Fax (978) 635-0266

15:30 FAX

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Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Dovene Landfill Project No. : GTX-3544 Boring No. : DLRF Sample No. : AOC9-CF5

Depth : ---Test Date : 0G/06/02 Test Method : ASTM D 422 Filename : AOC9CF5
Elevation : --Tested by : sep/cmt
Checked by : jdr

Location : ---Smil Description : Moist, dark brown sand

Remarks : ---

		COA	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percont
Mesh	Inches	Millimoters	Retained (gm)	Woight Rotained (gm)	Finer (%)
********		********* /	******		
2"	2.000	50.B0	0.00	0.00	100
1.5"	1,500	38.10	61.70	81.70	100
1"	1.012	25.70	247.40	329.10	9.5
0.75"	0.749	19.00	385.20	714.30	9.6
0.5"	0.500	12.70	491.70	1206.00	93
0.375"	0.374	9.51	315,00	1521.00	97
#4	0.187	4.75	782.00	2303.00	A A

Total Dry Weight of Sample = 16614

			EI	NE SIEVE SET		
Sieve	Sieve O	penings	6	Weight	Cumulative	Percent
Mesh	Inches	Millimeters		(gm)	Weight Recained (gm)	Pines (%)
	******	******	8			******
##	0.093	2.36		9.74	5.76	63
#16	0.047	1.19		30.48	40.22	73
- 1	0.023	0.60	0	72.97	113.13	45
	0.012	0.30		81.G7	194.96	22
	0.005	0.15	1	41.96	236,82	÷
_40	0.003	0.07		14.99	251,81	2.
Pan			1	13.04	264.85	C

Total Dry Weight of Sample = 273.09

D85 : 3.6944 mm D60 : 0.8127 mm D50 : 0.8055 mm D30 : 0.3E71 mm D15 : 0.2000 cm D10 : 0.1557 mm

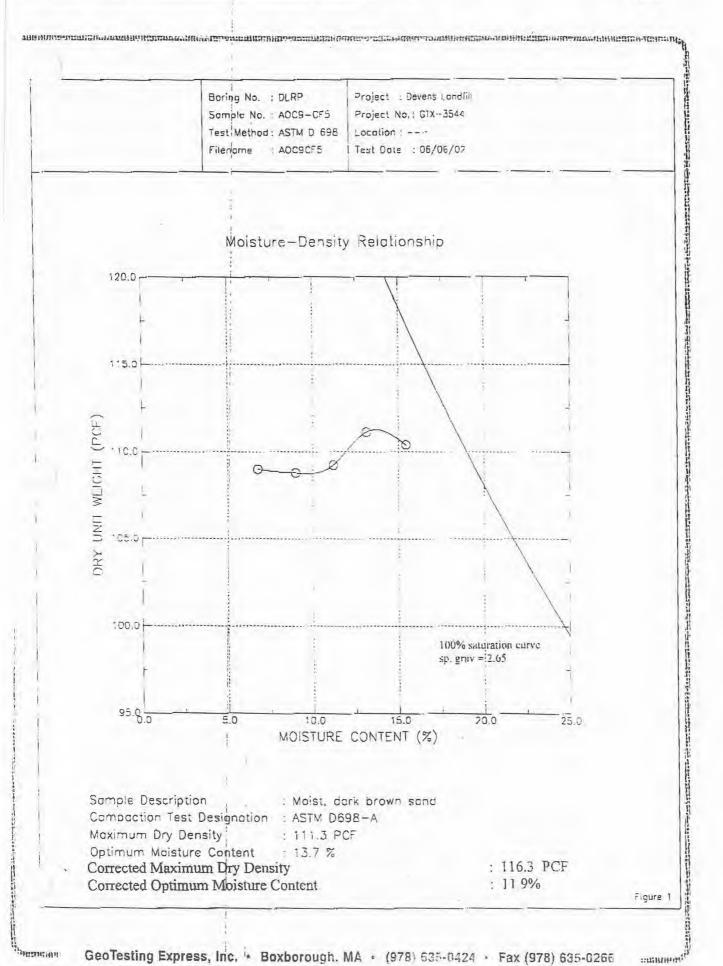
Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand

AASHTO Group Symbol : A-1-a(0)

AASHTC Group Name : Stone Fragments, Gravel and Sand



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Tue Jun 11 15:36:03 2002

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GEOTECHNICAL LABORATORY TEST DATA

Project ; Devens Landfill

Depth : ---

Filename : ACC9CF5

Project No. : GTX-3544 Boring No. : DLRP

Test Date : 06/06/02

COMPACTION TEST

Elevation : ---Tested by : scp/cmt

Sample No. : AOC9-CF5

Test Method : ASTM D 696

Checked by : jdt

Location . ---

Soil Description : Moist, dark brown sand

Remarks : ---

Mold ID

in the state of th

: ASTM D698-A Method Used

Volume of Mold : 0.0333 ft^3 Mass of Mold : 433Z gm Specific Gravity ; 2.65

Moisture Content ID,	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container - Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
	*******	×		****** ***	*******	*** ****
=tb26a	9.18	306.41	287.50	6090.00	6.9	100_0
timmy	0.23	371 -24	341.33	6123.00	9.0	109.E
Btan	8.19	302.06	272.44	5167.00	11.2	105,2
3C5	E.14	303.50	269.21	6231.00	13.1	111.1
tp7	E.43	446.31	367.74	6257.00	15.4	110.4
Op	timum Dry Densi	cy - 111.3 PCP				
On	rimum Moistura	Content - 18 7 3				

rsize correction (14% > No. 4 sieve):

Corrected Maximum Dry Density

: 116.3 PCF

Corrected Optimum Moisture Content

: 11.9%

Test ID	Date	Location	Coordinates (NAD83) Northing	Coordinates (NAD83) Easting	Elevation (Feet)	Compaction, %	Moisture Content,	Dry Density, pcf	Pass/Fail (P/F)	Comments
CT-9-001	10-Oct-02	AQC-9	3030208.0159	624905.3494	214.00	97.4	4.3	122.2	P	
CT-9-002	10-Oct-02	AOC-9	3030246.8015	624941.7304	212.83	98.3	4.4	123,3	Р	
CT-9-003	10-Oct-02	AOC-9	3030276.3933	624994.3583	211.70	101.7	5.8	127.6	Р	
CT-9-004	10-Oct-02	AGC-9	3030343.9814	625037.9765	213.08	93.9	4.2	117.8	Р	
CT-9-005	10-Oct-02	AOC-9	3030394,3939	625092,0252	212,50	100.0	3.1	125.5	P	
CT-9-006	10-Oct-02	AOC-9	3030450.6723	825150.4052	211.69	100.0	3.9	125,3	Р	
CT-9-007	10-Oct-02	AOC-9	3030485.5920	625232.4987	210.00	97,7	5.2	122.6	P	
CT-9-008	10-Oct-02	AOC-9	3030480.8634	625115.2877	213.17	100.2	2.6	125.7	Р	
CT-9-009	10-Oct-02	AOC-9	3030416.9961	625036.0063	213.48	97.3	3.8	122.0	P	
CT-9-010	10-Oct-02	AOC-9	3030342,4068	624980,5070	214.21	99,0	5,9	124.2	Р	
CT-9-011	10-Oct-02	AOC-9	3031263.3309	625214.7529	214.71	82.5	10.4	118.8	P	
CT-9-012	10-Oct-02	AOC-9	3031422,3268	625065,4302	213.76	99.2	4.2	127.4	Р	
CT-9-013	10-Oct-02	AOC-9	3031335.9746	625099.0940	214.93	96.8	8.6	124.4	P	
CT-9-014	10-Oct-02	ACC-9	3031207.7008	625229.8647	215.32	91.3	7.6	117.3	Р	
CT-9-015	10-Oct-02	AQC-9	3031112.6067	625241,1004	214.23	90.1	7.9	113.0	Р	
CT-9-016	10-Oct-02	AOC-9	3031027.4994	625258.0064	213.50	92.4	8.1	125.1	P	
CT-9-017	10-Oct-02	AOC-9	3030847.8765	625223.7440	212.05	99.7	6,0	125.0	Р	
CT-9-018	10-Oct-02	AOC-9	3030746.2631	625240.1974	211.38	100.1	3.9	125.6	P	
CT-9-019	10-Oct-02	AOC-9	3030723.5396	625286.0637	210.86	102,5	3.9	126,6	P	
CT-9-020	10-Oct-02	AOC-9	3030798.0306	625295,5721	210.76	98.5	4.4	123.5	Р	
CT-9-021	10-Oct-02	AOC-9	3030787.5095	625374.8772	211.26	102.2	4.0	123.2	Р	
CT-9-022	10-Oct-02	AOC-9	3030865,6394	625277.7739	212,51	99.7	5.7	123.2	P	
CT-9-023	10-Oct-02	AOC-9	3030885,6394	625293,7739	211.12	100.1	4.7	126.6	é	
CT-9-024	17-Oct-02	AOC-9	3030401.6402	625141,0674	211.98	91,9	5.2	122.0	P	
CT-9-025	17-Oct-02	AOC-9	3030470,6707	625193.8458	211.34	94.5	8.2	125,4	Р	
CT-9-026	17-Oct-02	AOC-9	3030449.3871	625114.2836	212.407	97.4	3.7	129.2	P	
CT-9-027	17-Oct-02	AOC-9	3030560.5798	625282.4466	212.264	91.9	4,4	117,5	P	
CT-9-028	17-Oci-02	AOC-9	3031457.3882	624987.3933	218.515	92.2	6.7	115.6	P	
CT-9-029	17-Oct-02	AOC-9	3031358.8057	625099.9496	215.632	92.8	11.9	116.4	P	

CT-9-030	17-Oct-02	AOC-9	3031289.0630	625162.9273	216.04	95.1	7.8	119.3	Р	
CT-9-031	17-Oct-02	AOC-9	3031156.9262	625214.8835	216.837	93,3	7,9	123.8	Р	
CT-9-032	17-Oct-02	AOC-9	3031056.1172	625248.0626	215.408	90.0	4.5	119.2	Р	
										-
-										
						*				
								,		
										4.
								1		

Field Density Test Report

Client: Project Name: Stone & Webster Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date: Weather: 10/10/2002 Cloudy, 60F

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	CF-1	CONC-02	
Corrected Maximum Dry Density, pcf	125.4	128.4	
Corrected Optimum Moisture Content, %	9.2	9.6	

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	AOC-9	4.3	122.2	97.4	CF-1	
2	AOC-9	4.4	123.3	98.3	CF-1	
3	AOC-9	5.8	127.6	102	CF-1	
4	AOC-9	4.2	117.8	93.9	CF-1	
5	AOC-9	3.1	125.5	100	CF-1	
6	AOC-9	3.9	125.3	99.9	CF-1	
7	AOC-9	5.2	122.6	97.8	CF-1	
8	AOC-9	2.6	125.7	100	CF-1	
9	AOC-9	3.8	122.0	97.3	CF-1	
10	AOC-9	5,9	124.2	99.0	CF-1	
11	AOC-9	10,4	118.8	92.5	CONC-02	
12	AOC-9	4.2	127.4	99.2	CONC-02	
13	AOC-9	8.6	124.4	96.9	CONC-02	
14	AOC-9	7.6	117.3	91.4	CONC-02	
15	AOC-9	8.0	113.0	90.1	CF-1	

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Seaman	ar,

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

8:00 AM

Mileage:

24 miles

Off-Site:

12:00 PM

Travel Time:

0.5 hours

Field Density Test Report

Client:

Stone & Webster

Project Name: Project Location: Devens Landfill Devens, MA

Testing Location:

Various

Project #:

GTX-3544

Date:

10/10/2002 Cloudy, 60F

Weather: Page:

2 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	CF-1	CONC-02	
Corrected Maximum Dry Density, pcf	125.4	128.4	
Corrected Optimum Moisture Content, %	9.2	9.6	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
16	AOC-9	8.1	125.1	97.4	CONC-02	
17	AOC-9	6.0	125.0	99.7	CF-1	
18	AOC-9	3.9	125.6	100	CF-1	
19	AOC-9	3.9	128.6	103	CF-1	
20	AOC-9	4,4	123.5	98.5	CF-1	
21	AOC-9	4.0	128.2	102	CF-1	
22	AOC-9	5.7	125.0	99.7	CF-1	
23	AOC-9	4.7	126.6	101	CF-1	
						- F

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Seaman	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

8:00 AM

Mileage:

24 miles

Off-Site:

12:00 PM

Travel Time:

0.5 hours

Field Density Test Report

Client:

Stone & Webster

Project Name: Project Location: Devens Landfill Devens, MA

Testing Location:

Various

Project #:

GTX-3544

Date: Weather: 10/10/2002 Cloudy, 60F

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	CF-1	CF-7	CF-8	
Corrected Maximum Dry Density, pcf	125.4	132.7	127.8	
Corrected Optimum Moisture Content, %	9.2	6.4	7.2	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
4	AOC-9	5.2	122.0	91.9	CF-7	
2	AOC-9	8.2	125.4	94.5	CF-7	
3	AOC-9	3.7	129.2	97.4	CF-7	
4	AOC-9	4.4	117.5	91.9	CF-8	
5	AOC-9	6.7	115.6	92.2	CF-1	
6	AOC-9	11.9	116.4	92.8	CF-1	
7	AOC-9	7.8	119.3	95.1	CF-1	
8	AOC-9	7.9	123.8	93.3	CF-7	
9	AOC-9	4.5	119.2	89.8	CF-7	

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Seaman		

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Craig Paradis

On-Site:

1:00 PM

Mileage:

24 miles

Off-Site:

3:00 PM

Travel Time:

0.5 hours

Project : Devens Landfill Boring No.: - --Project No.: GTX-3544 Sample No.: DLRP-CONC-02 Test Method ASTM D 422 Location: ---Date : Wed Oct 02 2002 Filename : DLRPCON2 U.S. STANDARD SIEVE SIZE #40 #60 #100 #200 #400 0.5" #20 100 m 10 90 20 80 BY WEIGHT 30 70 PERCENT RETAINED 40 60 FINER 50 50 60 PERCENT 70 30 11: 80 20 90 10 -100 1000 500 0.1 0.05 0.01 0.005 100 50 0.5 0.001 GRAIN SIZE IN MILLIMETERS GRAVEL SAND SILT OR CLAY COBBLES COARSE FINE COARSE MEDIUM FINE Remarks Classification: (SP-SM) Poorly graded sand with silt and gravel Visual Description :

Moist, dark brown sand with silt and gravel

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : ---Sample No. : DLRP-CONC-02 Depth : ---

Test Date : 09/30/02 Test Method : ASTM D 422 Filename : DLRPCON2 Elevation : ---Tested by : sn Checked by : jdt

Location : ---

Soil Description : Moist, dark brown sand with silt and gravel

COARSE SIEVE SET

		COA	KSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)

2"	2.000	50.80	0.00	0.00	100
1.5"	1.500	38.10	416.00	416.00	98
1"	1.012	25.70	1222.00	1638.00	94
0.75"	0.748	19.00	1283.00	2921.00	89
0.5"	0.500	12.70	2825.00	5746.00	78
0.375"	0.374	9.51	1821.00	7567.00	70
		D. S. Silvano B. L. Line B. C. L.			

Total Dry Weight of Sample = 25544

		F	TINE SIEVE SET			
Sieve	eve Sieve Openings		Weight	Cumulative	Percent	
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer	
		~****		**********		
#4	0.187	4.75	76.10	76.10	55	
#10	0.079	2.00	69.86	145.96	41	
#20	0.033	0.84	55.18	201.14	30	
#40	0.017	0.42	50.60	251.74	20	
#60	0.010	0.25	27.12	278.86	15	
#100	0.006	0.15	18.05	296.91	11	
#200	0.003	0.07	14.41	311.32	В	
Pan			40.50	351.82	0	

Total Dry Weight of Sample = 360.08

D85 : 16.6863 mm

D60 : 5.9248 mm D50 : 3.4526 mm

D30 : 0.8329 mm D15 : 0.2599 mm

D10 : 0.1173 mm

Soil Classification

ASTM Group Symbol : SP-SM

ASTM Group Name : Poorly graded sand with silt and gravel

AASHTO Group Symbol : A-1-a(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : DLRP

Sample No. : CONC-02

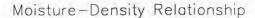
Test Method: ASTM D 1557

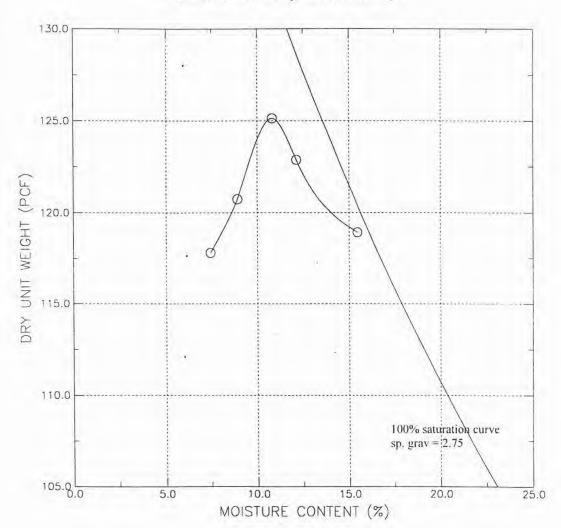
Filename : DLRPCON2 Project : Devens Landfill

Project No.: GTX-3544

Location: ---

Test Date : 09/30/02





Sample Description

: Moist, dark brown sand with silt and gravel

Compaction Test Designation : ASTM D1557-C Maximum Dry Density

: 125.1 PCF

Optimum Moisture Content

: 10.8 %

Corrected Maximum Dry Density Corrected Optimum Moisture Content : 128.4 PCF

: 9.6%

Wed Oct 02 17:21:00 2002

Page: 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Depth : ---

Filename : DLRPCON2 Elevation : ---

Boring No. : DLRP

Test Date : 09/30/02 Test Method : ASTM D 1557 Tested by : sn

Sample No. : CONC-02 Location : ---

Soil Description : Moist, dark brown sand with silt and gravel

Checked by : jdt

COMPACTION TEST

Mold ID Method Used

: ASTM D1557-C Volume of Mold : 0.075 ft^3

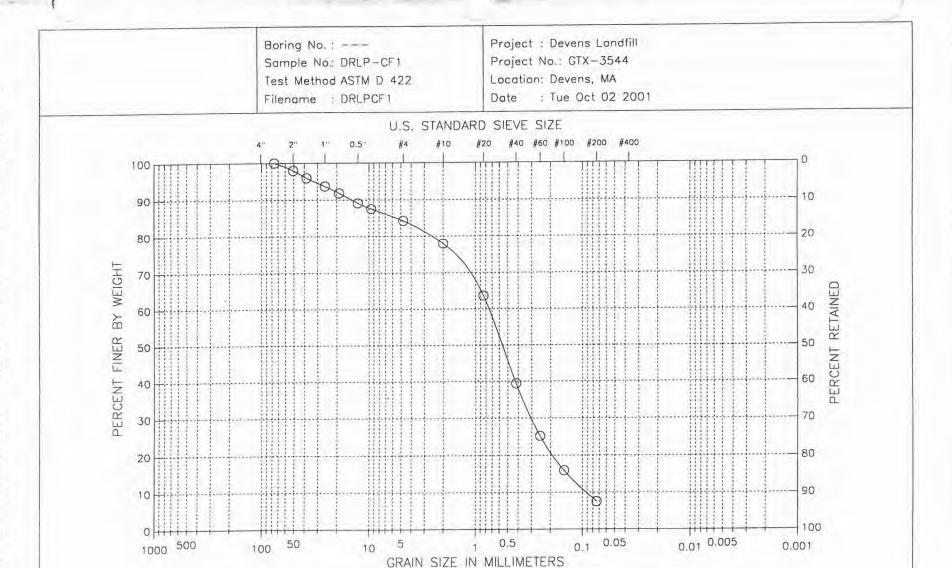
Mass of Mold : 6271 gm Specific Gravity : 2.75

Moisture Content 'ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
	*******			700350350		
leg	8.23	416.08	387.82	10577.00	7.4	117.8
ed	8.34	385.25	354.36	10745.00	8.9	120.7
gt2	8.14	436.01	394.28	10988.00	10.8	125.1
wjm7	8.13	422.44	377.61	10958.00	12.1	122.9
ch2	8.04	483.82	420.12	10942.00	15.5	118.9
Or	timum Dry Densi	ty = 125.1 PCF			200	
OF	timum Moisture	Content = 10.8 %				

Oversize correction ($11\% > \frac{3}{4}$ inch sieve):

Corrected Maximum Dry Density : 128.4 PCF

Corrected Optimum Moisture Content : 9.6%



COBBLES COARSE FINE COARSE MEDIUM FINE SILT OR CLAY

Classification :

Remarks:

Sample ID; DRLP-AOC-09-CF1

Visual Description :

Moist, yellowish brown sand

GEOTECHNICAL LABORATORY TEST DATA

Test Method : ASTM D 422

Project : Devens Landfill

Project No. : GTX-3544

Depth : ---Test Date : 09/24/01 Boring No. : ---

Sample No. : DRLP-CF1 Location : Devens, MA

Soil Description : Moist, yellowish brown sand

Remarks : Sample ID; DRLP-AOC-09-CF1

Filename : DRLPCF1 Elevation : ---Tested by : tew

Checked by : jdt

Sieve	Sieve O	nenings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
	220022	*********		*****	
3"	2.996	76.10	0.00	0.00	100
2"	2.000	50.80	930.00	930.00	98
1.5"	1.500	38.10	914.00	1844.00	96
1"	1.012	25.70	1027.00	2871.00	94
0.75"	0.748	19.00	855.00	3726.00	92
0.5"	0.500	12.70	1254.00	4980.00	89
0.375"	0.374	9.51	723.00	5703.00	88

		INE SIEVE SET		
Sieve On	penings	Weight	Cumulative	Percent
Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)

0.187	4.75	10.78	10.78	84
0.079	2.00	20.35	31.13	78
0.033	0.84	46.35	77.48	64
0.017	0.42	78.42	155.90	39
0.010	0.25	46.05	201.95	25
0.006	0.15	29.87	231.82	16
0.003	0.07	27.21	259.03	8
		24.27	283.30	O
	0.187 0.079 0.033 0.017 0.010 0.006	0.187 4.75 0.079 2.00 0.033 0.84 0.017 0.42 0.010 0.25 0.006 0.15	Inches Millimeters Retained (gm) 0.187	Inches Millimeters Retained (gm) (gm) 0.187

Total Dry Weight of Sample = 292.94

D85 : 5.5913 mm D60 : 0.7585 mm D50 : 0.5695 mm

D30 : N/A D15 : N/A

D10 : 0.0911 mm

Soil Classification

ASTM Group Symbol : N/A ASTM Group Name : N/A AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

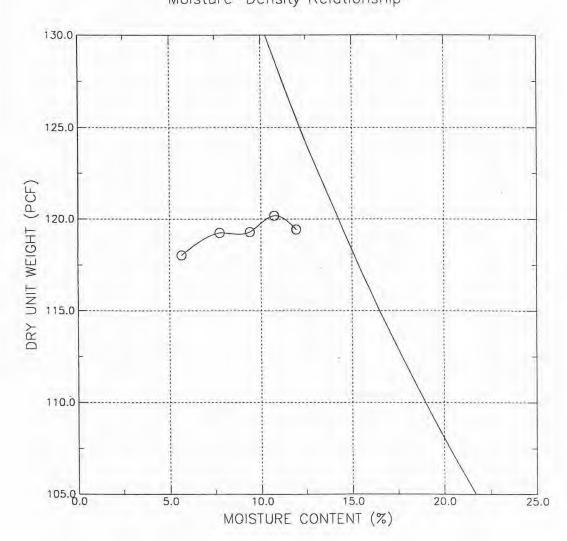
Boring No. : ---

Sample No. : DRLP-CF1
Test Method : ASTM D 698
Filename : DRLPCF1

Project : Devens Landfill

Project No.: GTX-3544 Location: Devens, MA Test Date : 09/24/01

Moisture-Density Relationship



Sample Description : Moist, yellowish brown sand

Compaction Test Designation : ASTM D698-A
Maximum Dry Density : 120.2 PCF
Optimum Moisture Content : 10.8 %

Corrected Maximum Dry Density : 125.4 PCF Corrected Optimum Moisture Content : 9.2% Tue Oct 02 21:33:11 2001

Page: 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Depth : ---Test Date : 09/24/01 Filename : DRLPCF1 Elevation : ---

Boring No. : ---Sample No. : DRLP-CF1

Test Method : ASTM D 698

Tested by : tew Checked by : jdt

Location : Devens, MA

Soil Description : Moist, yellowish brown sand

Remarks : Sample ID; DRLP-AOC-09-CF1

COMPACTION TEST

Mold ID

: ASTM D698-A

Method Used Volume of Mold : 0.0333 ft³ Mass of Mold : 4951 gm Specific Gravity : 2.65

Moisture Content ID		Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
		*********	***********	~~~~~~~		
wolfe	8.27	240.39	227.93	6835.00	5.7	118.0
xa75	9.78	233.98	217.84	6892.00	7.8	119.3
sr47	9.69	254.42	233.42	6922.00	9.4	119.3
k24	9.66	209.68	190.30	6961.00	10.7	120.2
btp3	9.12	213.00	191.20	6971.00	12.0	119.4
	Optimum Dry Density	= 120.2 PCF				

Oversize correction (16% > #4 sieve):

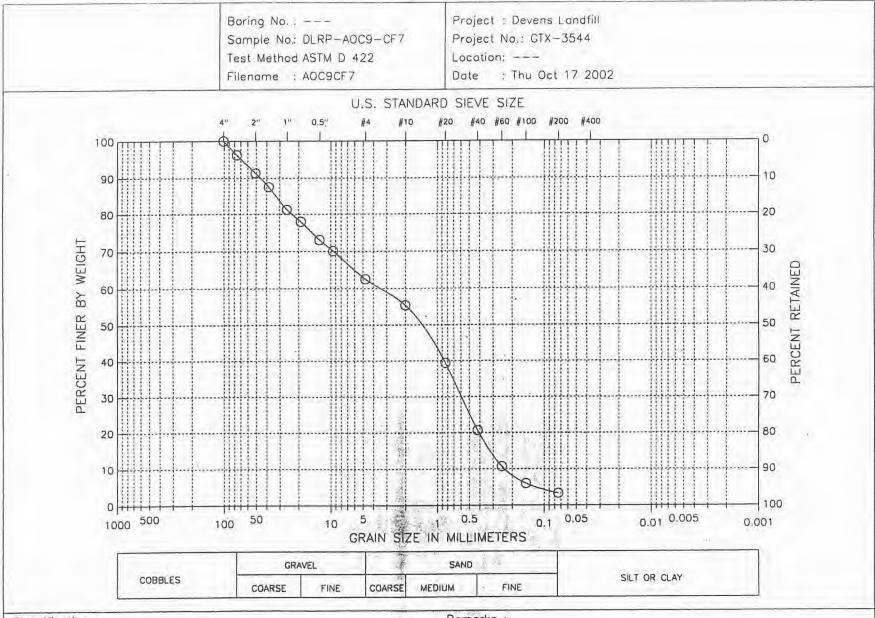
Optimum Moisture Content = 10.8 %

Corrected Maximum Dry Density

: 125.4 PCF

Corrected Optimum Moisture Content

: 9.2%



Classification :

(SP) Poorly graded sand with gravel

Visual Description :

Moist, brown sand with gravel

Remarks :

Page : 1

Thu Oct 17 11:59:24 2002

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544 Boring No. : ---

Depth : ---

Test Date : 10/11/02 ' Test Method : ASTM D 422 Filename : AOC9CF7 Elevation : ---Tested by : ja Checked by : jdt

Sample No. : DLRP-AOC9-CF7 Location : ---

Soil Description : Moist, brown sand with gravel

Remarks :

		COAL	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
4"	4.000	101.60	0.00	0.00	100
3"	2.996	76.10	967.00	967.00	96
2"	2.000	50.80	1277.00	2244.00	91
1.5"	1.500	38.10	987.00	3231.00	88
1"	1,012	25.70	1633.00	4864.00	81
0.75"	0.748	19.00	856.00	5720.00	78
0.5"	0.500	12.70	1273.00	6993.00	73
0.375"	0.374	9.51	763.00	7756.00	70
#4	0.187	4.75	1963.00	9719.00	63
Total D	rv Weight	of Sample = 259	32		

Sieve	Sieve O		INE SIEVE SET Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
	*****		******	******	
#10	0.079	2.00	42.20	42.20	55
#20	0.033	0.84	96.71	138.91	39
#40	0.017	0.42	111.89	250.80	21
#60	0.010	0.25	59.93	. 310.73	11
#100	0.006	0.15	27.92	338.65	6
#200	0.003	0.07	16.17	354.82	3.
Pan			19.98	374.80	0

Total Dry Weight of Sample = 382.88

D85 : 32.5044 mm D60 : 3.4846 mm D50 : 1.4900 mm D30 : 0.5939 mm D15 : 0.3127 mm D10 : 0.2316 mm

Soil Classification

: SP ASTM Group Symbol

: Poorly graded sand with gravel ASTM Group Name

AASHTO Group Symbol : A-1-b(0)

: Stone Fragments, Gravel and Sand AASHTO Group Name

Boring No. : DLRP

Sample No.: AOC9-CF7

Test Method: ASTM D 698

Filename : AOC9CF7

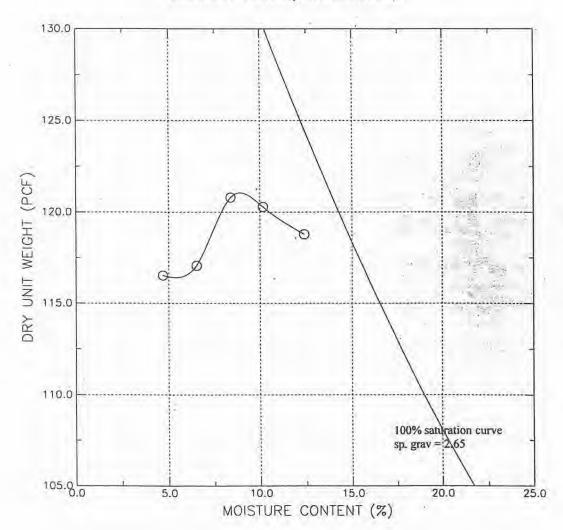
Project : Devens Landfill

Project No.: GTX-3544

Location : ---

Test Date : 10/11/02

Moisture-Density Relationship



Sample Description

: Moist, brown sand with gravel

Compaction Test Designation

: ASTM D698-C

Maximum Dry Density

: 121.1 PCF

Optimum Moisture Content

: 8.9 %

Corrected Maximum Dry Density

: 132.7 PCF

Corrected Optimum Moisture Content

: 6.4%

Figure '

Thu Oct 17 12:01:45 2002

Page: 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : DLRP Sample No. : AOC9-CF7 Depth : ---

Test Date : 10/11/02 Test Method : ASTM D 698 Filename : AOC9CF7 Elevation : ---Tested by : ja Checked by : jdt

Location : ---

Soil Description : Moist, brown sand with gravel

Remarks :

COMPACTION TEST

Mold ID

Method Used : ASTM D698-C Volume of Mold : 0.075 ft^3 Mass of Mold : 6059 gm Specific Gravity: 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)

1	8.31	449.05	429.31	10209.00	4.7	116.5
2	8.22	428.58	402.85	10301.00	6.5	117.1
3	8.19	526.05	485.99	10513.00	8.4	120.8
4	8.34	541.54	492.34	10567.00	10.2	120.3
5	8.19	527.49	470.29	10600.00	12.4	118.8
Or	timum Dry Density	= 121.1 PCF				
Or	timum Moisture Co	ntent = 8.9 %				

Oversize correction ($22\% > \frac{3}{4}$ inch sieve):

Corrected Maximum Dry Density

: 132.7 PCF

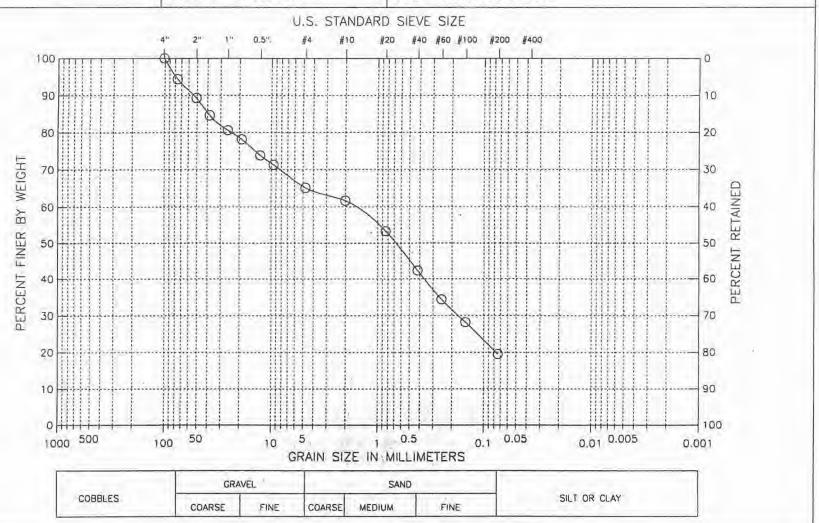
Corrected Optimum Moisture Content

: 6.4%

Boring No.: --- Project : Devens Landfill Sample No.: DLRP-AOC9-CF8 Project No.: GTX-3544

Test Method ASTM D 422 Location: ---

Filename : AOC9CF8 Date : Thu Oct 17 2002



Classification :

Remarks :

Visual Description :

Moist, brown silty sand with gravel

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Depth : ---

Filename : AOC9CF8

Boring No. : ---

Elevation : ---

Sample No. : DLRP-AOC9-CF8

Test Date : 10/11/02 Test Method : ASTM D 422 Tested by : ja Checked by : jdt

Location : ---

Soil Description : Moist, brown silty sand with gravel

Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
********		*********		********	
4 "	4.000	101.60	0.00	0.00	100
3"	2.996	76.10	1319.00	1319.00	94
2"	2.000	50.80	1187.00	2506.00	89
1.5"	1.500	38.10	1080.00	3586.00	85
1"	1.012	25.70	942.00	4528.00	81
0.75"	0.748	19.00	582.00	5110.00	78
0.5"	0.500	12.70	1020.00	6130-00	74
0.375"	0.374	9.51	594.00	6724.00	71
#4	0.187	4.75	1446.00	8170.00	65

Total Dry Weight of Sample = 23404

FINE SIEVE SET

		E.	THE STEAM DET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	 Weight Retained (gm) 	Finer (%)
446-446944	22222			*******	4544444
#10	0.079	2.00	16.70	16.70	62
#20	0.033	0.84	39.66	56.36	53
#40	0.017	0.42	53.59	109.95	42
#60	0.010	0.25	38.14	148.09	34
#100	0.006	0.15	30.03	178.12	28
#200	0.003	0.07	41.84	219.96	19
Pan			94.01	313.97	0

Total Dry Weight of Sample = 322.1

D85 : 38.8730 mm D60 : 1.6845 mm D50 : 0.6797 mm D30 : 0.1736 mm D15 : N/A

D10 : N/A

Soil Classification

ASTM Group Symbol : N/A ASTM Group Name : N/A AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : DLRP

Sample No.: AOC9-CF8

Test Method: ASTM D 698

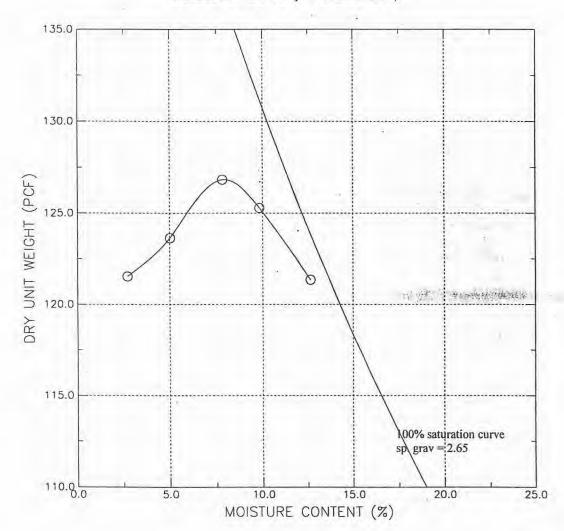
Filename : AOC9CF8 Project : Devens Landfill

Project No.: GTX-3544

Location: ---

Test Date : 10/11/02

Moisture-Density Relationship



Sample Description

: Moist, brown silty sand with gravel

Compaction Test Designation : ASTM D698-C

Maximum Dry Density

: 126.8 PCF

Optimum Moisture Content

: 7.9 %

Corrected Maximum Dry Density

: 127.8 PCF

Corrected Optimum Moisture Content

: 7.2%

Figure .

Thu Oct 17 12:01:45 2002

Page: 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : DLRP Sample No. : AOC9-CF8 Depth : ---

Test Date : 10/11/02 Test Method : ASTM D 698 Filename : AOC9CF8 Elevation : ---Tested by : ja

Checked by : jdt

Location : ---

Soil Description : Moist, brown silty sand with gravel

Remarks :

COMPACTION TEST

Mold ID

Method Used : ASTM D698-C
Volume of Mold : 0.075 ft^3
Mass of Mold : 6272 gm
Specific Gravity : 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
22,222,24						
5	8.18	330.22	321.74	10518.00	2.7	121.5
4	8.23	349.88	333.56	10689.00	5.0	123.6
3	8.17	346.58	322.04	10924.00	7.8	126.8
1	9.69	442.60	403.85	10953.00	9.8	125.3
2	8.12	450.34	400.70	10922.00	12.6	121.3
	Optimum Dry Density	= 126.8 PCF		1		

Oversize correction ($22\% > \frac{3}{4}$ inch sieve):

Optimum Moisture Content = 7.9 %

Corrected Maximum Dry Density : 127.8 PCF

Corrected Optimum Moisture Content : 7.2%



UNIVERSITY of MASSACHUSETTS

ISS. UMass Extension

RECEIVED

AUG 3 : 2001

STONE & WEBSTER CONSTRUCTION | DEVENS LANDFILL PROJECT Agroecology Program
Soil and Plant Tissue
Testing Laboratory
West Experiment Station
682 North Pleasant St.
Amherst, MA 01003-9302
413.545.2311
413.545.1931 fax
http://www.umass.edu/plsoils/soiltest

TEXTURAL ANALYSIS RESULTS

Customer Name:

Stone & Webster

Jeff Shea

45 Patton Road Ayer, MA 01432

Sample ID:

Fraction

8010816-102

Customer Designation:

DLRP-TS-01

Percentages based on less than 2 mm fraction

Percent

Sand		74.3				
Silt		21.1				
		77 57 77 77				
Clay		4.7				
			140			
		100.0			America a	
	40				- while A	ì
Sand Subfrac	ctions			Silt sub	fraction	
Very Coarse	9.7			Coarse	11.9	
Coarse	15.3			Medium	6.5	
Medium	18.1			Fine	2.7	
Fine	20.3					
Very Fine					21.1	
erl time	10.8					
	74 2					

Under USDA criteria this sample classifies as a coarse sandy loam. Classification is based on particles that are sand size and finer (i.e. less than 2 millimeters in diameter). Those particles greater than 2 mm are included in the textural name as a modifier (ex. gravelly). The sample submitted contained 25.5 % gravel on a weight basis. Any questions pertaining to these results may be asked by calling the Soil Testing Lab.

08/28/01

AND PLANT TISSUE TESTING LAB ST EXPERIMENT STATION IVERSITY OF MASSACHUSETTS HERST, MA 01003 LAB NUMBER: S010816-102 BAG NUMBER: 48020

SOIL WEIGHT: 6.19 g/5cc CROP: TURF/GRASS

RECEIVED

STONE & WEBSTER/JEFF SHEA 45 PATTON ROAD AYER, MA 01432 COMMENTS:

AUG 3 0 2001

MPLE ID: DLRP-TS-01

STONE & WEBSTER CONSTRUCTION

__DEVENSIANDFILL PROJECT

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Apply 124 lb of limestage/1000 sq ft.
Incorporate thoroughly one-half of the lime into the top 6 inches of soil. Mix the remaining half into the top 3 to 4 inches of soil along with recommended fertilizers.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 4 lbs P205, and 4 lbs R20.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate EITHER a 5-10-10 fertilizer at 40 lbs/1000 sq ft, OR a 15-25-10 starter lawn fertilizer at 15 lbs/1000 sq ft plus 0-0-60 (muriate of potash) fertilizer at 4 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

pH 5.8 NITROGEN: NO3-N = 14 ppm NH4-N = 2 ppm BL.FER pH 6.5 ORGANIC MATTER: 3.3 % (Desirable range 4-10%)

COTRIENT LEVELS: PPM Low Medium
Chosphorus (P) 5
Cotassium (K) 55
Calcium (Ca) 406
Lagnesium (Mg) 57
Low Medium
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MATION EXCH CAP

PERCENT BASE SATURATION R= 1.8 Mg= 5.9 Ca=25.5 MICRONUTRIENT LEVELS
ALL NORMAL

Very High

EXTRACTABLE ALUMINUM: 106 ppm (Soil range: 10-250 ppm)
SOLUBLE SALTS: 0.11 dS/M (Soil Range: 0.08-0.50 dS/M)

EXTRACTED LEAD (PB) 15 PPM. ESTIMATED TOTAL LEAD IS 213 PPM.

High

C' DUTER PROGRAM & RECOMMENDATIONS BY DEPT OF PLANT & SOIL SCI UMASS-AMHERST. Further information contact the Soil Testing Lab at (413) 545-2311.

\$40.00

Sail Toot Order Harm

PAGE 02	Soil 'I	Crop Code	Test Type	ÿ.
	-T5-02	4	C	12,00
OLRP.	-TS- 03	4	C	12.00
SOIL TESTING		Orde	er total:	4,50
UMASS	Webs	Please ter a) cess	Bill S the k	tone a
4135451931	Name 45 Pa Address	Shea Hon 1	zoad	
4135	City/ State	MA		A 1



Date

58

ö

08/14/2001

Zip Code

Phone

est Price List

Test

\$3.00 A. Soil pH Provides a simple soil pH test and an estimate of how much lime, sulfur, or other additive is needed to correct soil pH.

B. Standard Soil Test \$8.00 Provides pH, Buffer pH, Extractable Nutrients, Extractable Heavy Metals (eg. Lead), Cation Exchange Capacity, and Percent Base Saturation . Recommendations for nutrient and pH adjustment are included with results.

\$12.00 C. Standard Soil Test w/ Organic Matter Same as Standard Soil Test plus a determination and interpretation of the Percent Organic Matter in the soil sample.

D. Soil Texture (only) Provides a determination of the USDA Textural Classification by combined Hydrometer Analysis of silts and clays and Dry Sieving of sands. Results presented in tabular format. This test does not include the Standard Soil Test.

\$3.00 E. Soluble Salts Provides a measure of Electrical Conductivity of a 1:2 (soil:water) extract.

For a complete listing of Testing Services for Soils, as well as those for Plant Tissue, Composts, and Fertilizers, visit the Soil Lab's Web Site or call us.

Soil Sampling instruction

When to Sample

- Sampling can be done at any time; but if p adjustments are necessary, test as early as p sible prior to planting.
- Avoid sampling soils that have very recentl been fertilized.

Soil Sampling Procedure

- 1. Soils that are distinctly different as judged by appearance, crop growth or past treatment shoul be sampled separately.
- 2. Each sample submitted for testing should be a composite or mixture of approximately 12 separate scattered samplings taken over a well-define
- Look your field or property over. Define a sar. ple area based on uniformity of texture, slope, drainage, color, and past pest and fertility manage ment
- 4: Avoid sampling very wet soils. In soils where fertilizer has been placed in bands (rows), do not sample directly in a band. It is best not to obtain samples very near the edge of the field or plot.
- 5. Using a clean spade, auger, or sampling tube obtain soil from the surface through the primary rooting zone of the crop. Rooting depth will yary with crop type. For most plants the to 6-8 inches is appropriate. For established grasses sample the top 3-4 inches.
- 6. Place each of the 12 randomly spaced samplings in a clean container (pail or bag) and mix thoroughly. Spread the mixture out on a clean pa per to air-dry (do not place soil in an oven).
- 7. Mix the soil again. Obtain a one cup measure (the soil mixture and place it in a zip-lock type ba
- 8. Label the outside of the bag clearly with your name, address, and your sample ID.

SOIL AND PLANT TISSUE TESTING LAB PMEST EXPERIMENT STATION TVERSITY OF MASSACHUSETTS HERST, MA 01003 LAB NUMBER: S020411-130

BAG NUMBER: 49989

SOIL WEIGHT: 5.33 g/5cc CROP: NEW TURFGRASS

STONE & WEBSTER/JOHN SHEA 45 PATTON ROAD AYER, MA 01432 COMMENTS:

SAMPLE ID: DL RP TS-02

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Apply 124 lb of Jimestone/1000 sq ft. Incorporate thoroughly one-half of the lime into the top 6 inches of soil. Mix the remaining half into the top 3 to 4 inches of soil along with recommended fertilizers.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 2 lbs P205, and 4 lbs K20.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate EITHER a 10-10-10 fertilizer at 20 lbs/1000 sq ft plus 0-0-60 (muriate of potash) fertilizer at 3 lbs/1000 sq ft, OR a 15-25-10 starter lawn fertilizer at 10 to 12 lbs/1000 sq ft plus 0-0-60 (muriate of potash) fertilizer at 5 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

SOIL pH 5.8 BUFFER pH 6.5 NITROGEN: NO3-N = 16 ppm NH4-N = 21 ppm ORGANIC MATTER: 4.0 % (Desirable range 4-10%)

High

NUTRIENT LEVELS: PPM Low Medium Phosphorus (P) 7 XXXXXXXXXX Potassium (K) 56 XXXXXXXXXXXX Calcium (Ca) 375 XXXXXXXXXXX Magnesium (Mg) 49 XXXXXXXXXX

CATION EXCH CAP 7.3 Meg/100g PERCENT BASE SATURATION K= 1.9 Mg= 5.2 Ca=24.2 MICRONUTRIENT LEVELS
ALL NORMAL

Very High

EXTRACTABLE ALUMINUM: 114 ppm (Soil range: 10-250 ppm)

EXTRACTED LEAD (PB) 15 PPM.

ESTIMATED TOTAL LEAD IS 206 PPM.

The lead level in this soil is low.

RECEIVED

MAY 01 2002

STONE & WEBSTER CONSTRUCTOR
DEVENS LANDFILL PROJECT

COMPUTER PROGRAM & RECOMMENDATIONS BY DEPT OF PLANT & SOIL SCI UMASS-AMHERST. or further information contact the Soil Testing Lab at (413) 545-2311.

SOIL AND PLANT TISSUE TESTING LAB WEST EXPERIMENT STATION TVERSITY OF MASSACHUSETTS HERST, MA 01003 LAB NUMBER: S020411-131 BAG NUMBER: 49989

SOIL WEIGHT: 4.88 g/5cc CROP: NEW TURFGRASS

STONE & WEBSTER/JOHN SHEA 45 PATTON ROAD AYER, MA 01432 COMMENTS:

SAMPLE ID: DL RP TS-03

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Soil pH is higher than desired. Do NOT add limestone.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 1 lbs P205, and 0 lbs K20.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate a 30-3-3 lawn fertilizer at 7 lbs/1000 sq ft plus 0-45-0 (triple superphosphate) fertilizer at 2 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

SOIL pH 7.9 NITROGEN: NO3-N = 17 ppm NH4-N = 6 ppm BUFFER pH 7.4 ORGANIC MATTER: 5.8 % (Desirable range 4-10%)

CATION EXCH CAP PERCENT BASE SATURATION MICRONUTRIENT LEVELS 20.9 Meq/100g K= 7.1 Mg= 8.0 Ca=85.0 ALL NORMAL

EXTRACTABLE ALUMINUM: 50 ppm (Soil range: 10-250 ppm)

EXTRACTED LEAD (PB) 12 PPM. ESTIMATED TOTAL LEAD IS 176 PPM.

The lead level in this soil is low.

COMPUTER PROGRAM & RECOMMENDATIONS BY DEPT OF PLANT & SOIL SCI UMASS-AMHERST. or further information contact the Soil Testing Lab at (413) 545-2311.

Soil Order Form

Sample ID (your designation) (Crop Code	Test Type de) (A.B. etc.)	e Fee
RP-TS-04	4	C	\$12.00
RP-T5-05	4	C	\$12,00
PP-TS-06	4	C	\$ 12.00
28-compost	4	C	\$12.00

Order total: 48,50

Comments: Please bill Stone a Webster as the below address

Jeff Shea

45 Patton Road

Ayer, MA

City/State

01432 4/29/02

Zip Code

Date

978-784-6900 Fax: 978-784-0999



Soil Test ce List

Test

A. Soil pH \$3.00

Provides a simple soil pH test and an estimate of how much lime, sulfur, or other additive is needed to correct soil pH.

B. Standard Soil Test

Provides pH, Buffer pH, Extractable Nutrients, Extractable Heavy Metals (eg. Lead),
Cation Exchange Capacity, and Percent
Base Saturation. Recommendations for nutrient and pH adjustment are included with results.

C. Standard Soil Test \$12.00

w/ Organic Matter

Same as Standard Soil Test plus a determination and interpretation of the Percent

Organic Matter in the soil sample.

D. Soil Texture (only)

Provides a determination of the USDA Textural Classification by combined Hydrometer Analysis of silts and clays and Dry Sieving of sands. Results presented in tabular format. This test does not include the Standard Soil Test.

E. Soluble Salts \$3.00
Provides a measure of Electrical Conductivity of a 1:2 (soil:water) extract.

 For a complete listing of Testing Services for Soils, as well as those for Plant Tissue, Composts, and Fertilizers, visit the Soil Lab's Web Site or call us.

TS-04 1.5:1 TS-05 2:1

Soil Sampling Inst retions

When to Sample

- Sampling can be done at any time; but if pH adjustments are necessary, test as early as possible prior to planting.
- Avoid sampling soils that have very recently been fertilized.

Soil Sampling Procedure

- Soils that are distinctly different as judged by appearance, crop growth or past treatment should be sampled separately.
- Each sample submitted for testing should be a composite or mixture of approximately 12 separate scattered samplings taken over a well-defined area.
- Look your field or property over. Define a sample area based on uniformity of texture, slope, drainage, color, and past pest and fertility management.
- 4. Avoid sampling very wet soils. In soils where fertilizer has been placed in bands (rows), do not sample directly in a band. It is best not to obtain samples very near the edge of the field or plot.
- 5. Using a clean spade, auger, or sampling tube obtain soil from the surface through the primary rooting zone of the crop. Rooting depth will vary with crop type. For most plants the top 6-8 inches is appropriate, For established grasses sample the top 3-4 inches.
- 6. Place each of the 12 randomly spaced samplings in a clean container (pail or bag) and mix thoroughly. Spread the mixture out on a clean paper to air-dry (do not place soil in an oven).
- 7. Mix the soil again. Obtain a one cup measure of the soil mixture and place it in a zip-lock type bag
- 8. Label the outside of the bag clearly with your name, address, and your sample ID.

05/16/02

SOIL AND PLANT TISSUE TESTING LAB 'ST EXPERIMENT STATION **CVERSITY OF MASSACHUSETTS** HERST, MA 01003

LAB NUMBER: S020506-122 BAG NUMBER: 50547

SOIL WEIGHT: 4.31 g/5cc CROP: TURF NEW

STONE & WEBSTER/JEFF SHEA 45 PATTON ROAD AYER, MA 01432

COMMENTS:

SAMPLE ID: DLRP-TS-04 (1.5/1)

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Soil pli is higher than desired. Do NOT add limestone.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 2 lbs P205, and 0 lbs K20.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate EITHER a 17-23-6 starter fertilizer at 10 lbs/1000 sq ft, OR a 30-3-3 lawn fertilizer at 7 lbs/1000 sq ft plus a 0-45-0 (triple superphosphate) fertilizer at 4 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

SOIL PH 7.7 BUFFER pH 7.4

NITROGEN: NO3-N = 55 ppm NH4-N = 5 ppm ORGANIC MATTER: 10.6 % (Desirable range 4-10%)

CATION EXCH CAP 27.9 Meg/100g PERCENT BASE SATURATION K= 4.2 Mg= 7.2 Ca=88.7 MICRONUTRIENT LEVELS ALL NORMAL

EXTRACTABLE ALUMINUM:

61 ppm (Soil range: 10-250 ppm)

05/16/02

SOIL AND PLANT TISSUE TESTING LAB 'ST EXPERIMENT STATION IVERSITY OF MASSACHUSETTS HERST, MA 01003

LAB NUMBER: S020506-123

BAG NUMBER: 50547

SOIL WEIGHT: 4.21 g/5cc CROP: TURF NEW

STONE & WEBSTER/JEFF SHEA 45 PATTON ROAD AYER, MA 01432

COMMENTS:

SAMPLE ID: DLRP-TS-05 (2/1)

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Soil pH is higher than desired. Do NOT add limestone.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 2 lbs P205, and 0 lbs K20.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate EITHER a 17-23-6 starter fertilizer at 10 lbs/1000 sq ft, OR a 30-3-3 lawn fertilizer at 7 lbs/1000 sq ft plus a 0-45-0 (triple superphosphate) fertilizer at 4 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

SOIL pH 7.8 NITROGEN: NO3-N = 57 ppm MH4-N = 6 ppm BUFFER pH 7.4 ORGANIC MATTER: 10.0 % (Desirable range 4-10%)

High Medium Very High

CATION EXCH CAP 24.9 Meg/100g

PERCENT BASE SATURATION K= 4.0 Mg= 7.5 Ca=88.6 MICRONUTRIENT LEVELS ALL NORMAL

EXTRACTABLE ALUMINUM:

69 ppm (Soil range: 10-250 ppm)

05/16/02

SOIL AND PLANT TISSUE TESTING LAB ST EXPERIMENT STATION **IVERSITY OF MASSACHUSETTS** HERST, MA 01003

LAB NUMBER: S020506-124

BAG NUMBER: 50547

SOIL WEIGHT: 3.55 g/5cc CROP: TURF NEW

STONE & WEBSTER/JEFF SHEA 45 PATTON ROAD AYER, MA 01432

COMMENTS:

+1E MINITULE IN

SAMPLE ID: DLRP-TS-06 (2.5/1)

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Soil pk is higher than desired. Do NOT add limestone.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 2 lbs P205, and 0 lbs K20.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate EITHER a 17-23-6 starter fertilizer at 10 lbs/1000 sq ft, OR a 30-3-3 lawn fertilizer at 7 lbs/1000 sq ft plus a 0-45-0 (triple superphosphate) fertilizer at 4 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

SOIL pH 7.9 NITROGEN: NO3-N = 63 ppm NH4-N = 5 ppm BUFFER pH 7.5 ORGANIC MATTER: 12.3 % (Desirable range 4-10%)

NUTRIENT LEVELS: PPM Low Medium High Phosphorus (P) 8 Potassium (K) 397 XXXXXXXXXX (Ca) 4719 Calcium

PERCENT BASE SATURATION CATION EXCH CAP MICRONUTRIENT LEVELS 37.3 Meg/100g K= 3.9 Mg= 6.9 Ca=89.3 ALL NORMAL

EXTRACTABLE ALUMINUM: 64 ppm (Soil range: 10-250 ppm)

SOIL ANALYSIS REPORT FOR RESEARCH

05/16/02

SOIL AND PLANT TISSUE TESTING LAB ST EXPERIMENT STATION IVERSITY OF MASSACHUSETTS AERST, MA 01003

LAB NUMBER: S020506-125

BAG NUMBER: 50547

SOIL WEIGHT: 2.98 g/5cc

STONE & WEBSTER/JEFF SHEA 45 PATTON ROAD AYER, MA 01432

CONCERNS:

ANALYSIS REPORT

SAMPLE ID: COMPOST

SOIL TYPE:

SOIL PH

SOIL PH 7.9 ALUMINUM (AL): 57 PPM (Soil Range: 10-300)
BUFFER PH 7.5 ORGANIC MATTER: 20.6 %. Desirable range 4-8%.

VERY HIGH

MICRONUTRIENT PPM SOIL RANGE Boron (B) 4.5 0.1-2.0 Manganese (Mn) 31.3 3 - 20 Zinc (Zn) 11.6 0.1-70

MICRONUTRIENT PPM SOIL RANGE Copper (Cu) 1.4 0.3-8.0 Iron (Fe) 22.5 1.0-40

Zinc EXTRACTED LEAD (PB) 10 PPM.

ESTIMATED TOTAL LEAD IS 155 PPM.

EXTRACTED CADMIUM (CD) 0.2 PPM. EXTRACTED NICKEL (NI) 0.6 PPM.

EXTRACTED CHROMIUM (CR) 0.3 PPM.

COMMENTS

CHAIN OF C' STODY

G ting Express
1145 Mass Avenue, Boxborough, MA.01719
(978) 635-0424 Fax (978)635-0266

ompany Name Stone.	46	حل	ston								Α	nalysis	
Contact. Joff Sheat Chone Number 978-784-09	Ro w Fa	end x: 7	n	999	Sample Type 1. soil 2. geosynthetic 3. other	Contair 1, buck 2, bag 3, jar 4, plasti 5, Tube	ner Type et	Day State of South and Sou					
roject Location Ayon, M						J 5. 100e	3	3	/	/ /	/ /	/	
Sample Indentification	Conta	iner Type	Sam Date	pling Time	Sample Type	/ 1	Sar A	Ser	/		/	/	Comments
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GeoTesting Express

1145 Massachusetts Avenue Boxborough, MA 01719 Tel: 978-635-0424 Fax: 978-635-0266

Fax

To:	Mr. Jeff Shea	From:	Joe Tomei	
Faxc	978-784-0999	Pages:	2 (including cover p	page)
Phone:	978-784-0900	Date:	05/14/02	
Re:	Devens LF	CC:		
□ Urge	ent 🗆 For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle
• Com	ments:			

Organic Matter (ASTM D 2974) test results



дом иниверточника выправления выпра Moisture, Ash, and Organic Matter of Peat and Other Organic Soils by ASTM D 2974

Client:

Stone & Webster

Project Name: Project Location: Devens Landfill Devens, MA

GTX #:

3544

Test Date:

05/08/02

Tested By:

jlg

Checked By:

jdt

Boring #	Sample ID	Depth, ft	Visual Description	Moisture Content, %	Ash Content, %	Organic Matter, %
-	DLRP-TS-07	-	Moist, very dark gray sllty sand with organics	39.7	89.9	10.1
	DLRP-COMPOST-02	4	Moist, black silty sand with organics	72.5	78.3	21.7

Notes: Moisture content determined by Method A & reported as a percentage of oven-dried mass; dried to constant mass at temperature of 110 °C Ash content and organic matter determined by Method C; dried to constant mass at temperature of 440 °C

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.

CHAIN OF CHAIN OF CHAIN

Ge (ing Express 1145 Mass Avenue, Boxborough, MA.01719 (978) 635-0424 Fax (978)635-0266

ompany Name Stone.	+6	Jrobe	dan									Analysi	s
onlact. Deven Loger Name:	x: 7		999	Sample Type 1. soil 2. geosynthetic 3. other	1. buck		2274	or tent	/	/	/		
oject Name: oject Location Age, / Sample Indentification	Conta	iner	Samp		Sample Type	5.1000	55m D	glt	//			/	Comments
LRP-TS-08	7	281	6/27	1400	Soil	X	X						X.
screened material													
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GeoTesting Express

1145 Massachusetts Avenue Boxborough, MA 01719 Tel: 978-635-0424 Fax: 978-635-0266

Fax

To:	Mr.	Jeff Shea	From:	Joe Tomei	4
Faxc	978	-784-0999	Pages:	3 (including cover	page)
Phone:	978	-784-0900	Date:	07/03/02	
Re:	Dev	ens LF	CC:		
□ Urge	ent	☐ For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle
• Com	men	ls:		-	

DLRP-TS-08; pH and Organic Matter

"Camparataran in the company of the Moisture, Ash, and Organic Matter of Peat and Other Organic Soils by ASTM D 2974

Client:

Stone & Webster

Project Name: Project Location: Devens Landfill

Devens, MA

GTX #:

3544

Test Date:

07/01/02

Tested By:

hlb

Checked By:

idt

Boring #	Sample ID	Depth, fi	Visual Description	Moisture Content, %	Ash Content, %	Organic Matter, %
-	DLRP-TS-08		Moist, brown sand with organics	5.4	98.0	2.0

Notes: Moisture content determined by Method A & reported as a percentage of oven-dried mass; dried to constant mass at temperature of 110 °C Ash content and organic matter determined by Method C; dried to constant mass at temperature of 440 °C

resultant and the second of th Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practics and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.

mu.ameti

pH of Soils by ASTM D 4972

Client:

Stone & Webster

Project Name:

Devens Landfill Project Location: Devens, MA

GTX #:

3544

Test Date:

07/01/02

Tested By:

hlb

Checked By:

jdt

Sample Preparation: screened through #10 sieve

Boring #	Sample ID	Depth, ft	Visual Description	pH
_	DLRP-TS-08		Moist, brown sand with organics	5.5

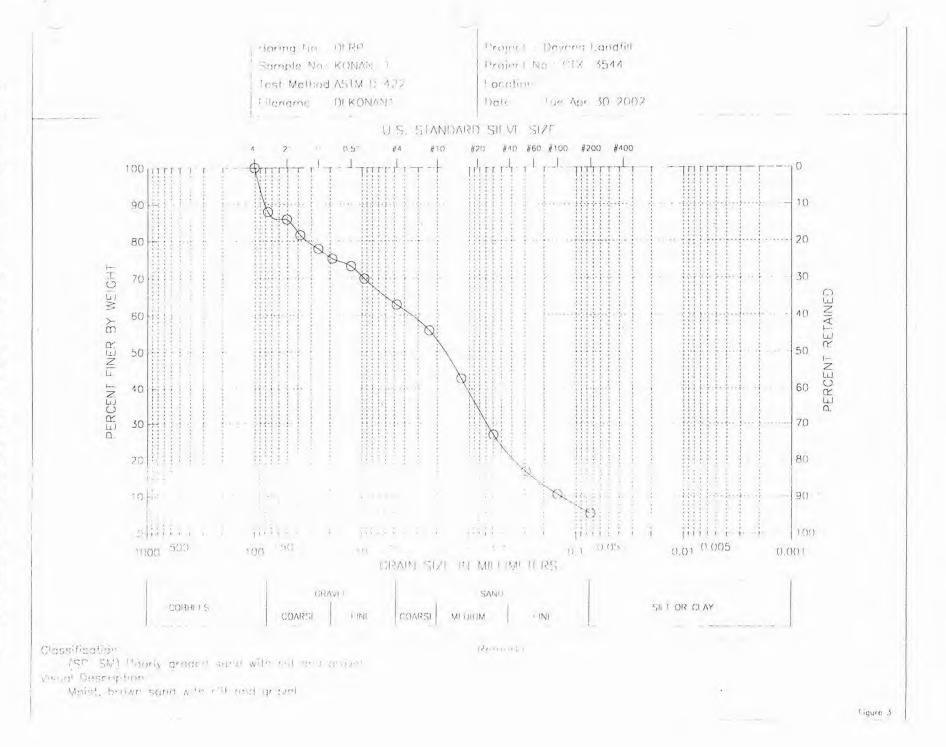
Notes: solution: water: 10 mL water: 10 g soil

Notes: These results apply only to the sample rested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated rest method. GeoTesting ledge as to conditioning, origin, sampling procedure or intended use of the material.

CHAIN OF STODY

1145 wass Avenue, Boxborough, MA.01719 (978) 635-0424 Fax (978)635-0266

Company Name Stone.	+(مان	ston				to the second	**************************************				Analysi	is
Address 45 Patton Contact. Def Shea Phone Number 978-784-0 Project Name: Devens L	, R	oad IX: 5		1999	Sample Type 1. soil 2. geosynthetic 3. other	Contair 1. bucke 2. bag 3. jar 4. plasti 5. Tube	ner Type	20/	5	2300		/	
Project Location Agen, /	74- Conta		Sam	nlina	Sample	7/	CIN	(W)	M	/	//	/	
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ELINQUISHED BY			TIME: DATE: TIME:			RECEIVED BY				TIME: DATE: TIME		1	STANDARD 10 days
HIPPED VIA				4									



GEOTECHNICAL LABORATORY TEST DATA

Pignest Devens Landfill Filename - DLKCNANI Procest No. : GTX=3544
Boring No. : DLRP
Sample No. : KONAN-1 Depth : · · Elevation - -Test Date : 04/27/02 Tested by a copicion Checked by id: Test Method a ASTM D 422

Fall leggription Moist, brown sand with silt and gravel Banaika : ---

Sieve	Sieve 0	penings	Weight	Cumulative	Fergen
Mesh	Inches	Millimeters	Retained	Weight Retained	Page 1
			1gm:	{gm	
		20-21	1-91-22		~ -
	4.000	101.60	0.0	0.00	19
27"	2.596	76.10	3687.27	3687.00	* -
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197 - 8672 mm 197 - 8672 mm 196 - 197 mm 197 - 198 - 198 1987 mm

- Lassis dar. S

ASTY RETURNS SYMME SELLY OFFICER SHARING WITH SLIT AND GRAVE.

ARSET STRUCK SYMPS AFIRM Fraction 12 Gave and Sand

Boring No. : DLRP Sample No. : KONAN-1

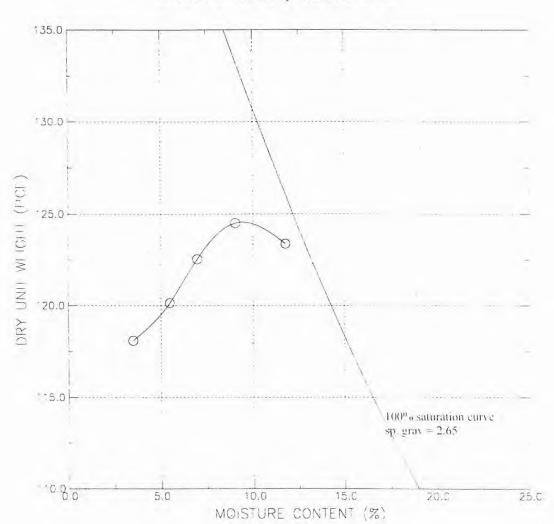
Project : Devens andfil Project No.: GTY - 35.44

Test Method: ASTM D 1557 | Location: ---

Filename - DLKONAN1

Test Date : 04/2//02

Moisture-Density Relationship



Sample Description

Moist, brown sand with sitt and grave

Compaction Test Designation

: ASTM D1557-C

Maximum Dry Density

: 124.6 PCF

Optimum Moisture Content

: 9.4 %

Corrected Maximum Dry Density Corrected Optimum Moisture Content : 132.9 PCF

: 7.1%

Figure 3

GEOTECHNICAL LABORATORY TEST DATA

Princer : Devens Landfill

Pengect No. 3TX-3544

Batting No. : DLRF sample No. : KONAN-1 Location --

Depth : ---

Test Date : (4/27/02 Test Method : ASTM D 1557 Filenam- : DLKONANI Elevation --Tested by . cop cig Checked by : id:

Soil Description : Moist, brown sand with silt and gravel hemarks : ---

COMPACTION TEST

Mold ID

Mold ID : Method Used : ASTM D1557-C Volume of Mold : 0,075 ft*3 Mass of Mold : 6138 gm Specific Gravity : 2.65

Moisture Content	Mass of Container	Mass of Container - Moist Soil	Mass of Container + Dry Soil	Mass of Mold - Specimen	Moisture Conten	Dry Density
22	gm.	(gm)	āw	gn	\$	PCF)
*****					*****	
dsc2t	8.28	350.75	339.14	10290.00	3.5	118.1
ovster	8.15	351.50	333.60	10450.6%	長」を	120_1
puc22	9.20	345.54	323.44	10799.00	*	122.5
dsc48	2.18	404.7	371.78	10757-0	9E	124.5
in2	8.16	390.18	349.97	10625_08	11.5	123.4
Or	ctimum Dry Densit	ty = 124,6 PCF				
್ಟಿ	timir Moisture (Content = 9.5 %				

Oversize correction (27% > 3/4 inch sieve):

Corrected Maximum Dry Density

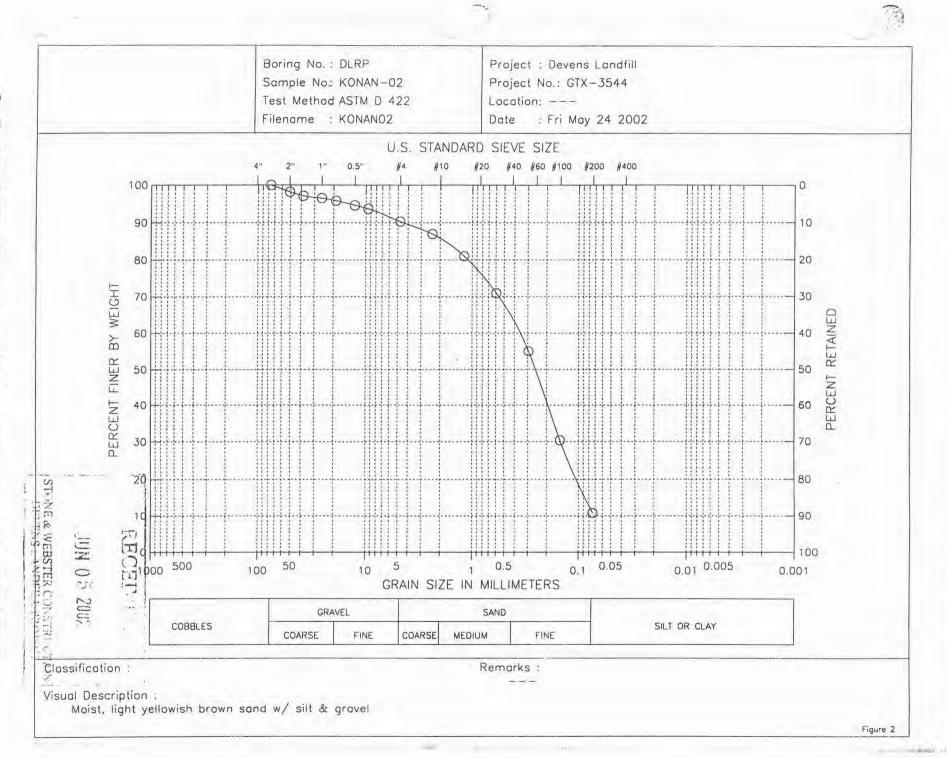
: 132.9 PCF

Corrected Optimum Moisture Content

: 7.1%

ATTERBERG LIMITS

PROJECT Devens Landfill	PROJECT NUMBER GTX-3544		TESTED BY	TESTED BY ccp/clg		BORING NUMBER	
LOCATION			CHECKED BY		SAMPLE N	UMBER	
SAMPLE DESCRIPTION Moisi, brown sand with silt and gravel			DATE Tue Apr 30 200	02	FILENAME DLKONAN1		
	LIQUID L	IMIT DETERMINA	TIONS		0		
CONTAINER NUMBER							
WT WET SOIL + TARE						,	
WT. DRY SOIL + TARE							
WT. WATER							
TARE WT.							
WT. DRY SOIL							
WATER CONTENT, WN (%)							
NUMBER OF BLOWS, N							
ONE-POINT LIQUID LIMIT, LL							
	PLASTIC I	LIMIT DETERMINA	ATIONS				
CONTAINER NUMBER							
WT. WET SOIL + TARE							
WT DRY SOIL + TARE							
WI, WATER							
TARE WT							
WT. DRY SOIL							
WATER CONTENT (%)							
			SU	IMMARY OF	RESULTS		
Determined to be Non-pl	astic.	N/	ATURAL WATER CON	TENT, W (%)	4.9	
	204.42.30	LI	QUID LIMIT, LL				
		. PI	ASTIC LIMIT, PL				
		PI	ASTICITY INDEX, PI				
		LI	QUIDITY INDEX, LI*				
		·LI	= (W - PL)/PI	DIACTICITY	CUADT		
				PLASTICITY	CHARI		
		80	* 1 1 1 1 1 4	1 1 1 1		THE CHOLOH	
		70				The Charles	
		60		/	1 1	**/-	
		≥ 50		-/	11	/	
		S 40		1 1	/	1	
		5	-		/	4	
		ISV 30		1		1	
		20	si or or			4	
			JEL BY UL				
		10	111			Mm or OH —	
		10	CL-ML ML	or OL			
		3	CI-MI ML	1 1 1	60 70 8	1	



GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : DLRP Sample No. : KONAN-02 Location : --- Depth : ---

Test Date : 05/20/02 Test Method : ASTM D 698 Filename : KONAN02

Elevation : ---Tested by : jlg Checked by : jdt

Soil Description : Moist, light yellowish brown sand w/ silt & gravel

Remarks : ---

COMPACTION TEST

Mold ID

Method Used : ASTM D698-A Volume of Mold : 0.0333 ft²3 Mass of Mold : 4258 gm Specific Gravity : 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)

harry	8.08	223.14	210.43	5980.00	6.3	107.3
md159	8.28	224.85	207.68	6016.00	8.6	107.2
wrkn	9.67	264.65	240.41	6089.00	10.5	109.7
ergot	8.19	265.59	235.79	6159.00	13.1	111.3
cood	9.64	255.73	222.98	6166.00	15.4	109.5
	Optimum Dry Density	= 111.3 PCF				

Optimum Moisture Content = 12.7 %

Oversize correction (10% > No. 4 sieve): Corrected Maximum Dry Density

Corrected Maximum Dry Density : 114.8 PCF Corrected Optimum Moisture Content : 11.5%

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STONE & WEBSTE, CLASSIFICATION DEVENS LASS SELECTION

Project : Devens Landfill Boring No. : DLRP Project No.: GTX-3544 Sample No. : KONAN-02 Location: ---Test Method: ASTM D 698 Filename : KONANO2 Test Date : 05/20/02 RECEIVED MIN 05 2002 Moisture-Density Relationship 120.0 STONE & WABSTER CONSTRUCTION DEVENS ... ANDFILL PROJECT 115.0 UNIT WEIGHT (PCF) 110.0 105.0 DRY 100.0 100% saturation curve sp. grav = 2.6595.0 25.0 5.0 15.0 20.0 10.0 MOISTURE CONTENT (%) Sample Description : Moist, light yellowish brown sand w/ silt & gravel Compaction Test Designation : ASTM D698-A : 111.3 PCF Maximum Dry Density Optimum Moisture Content : 12.7 % Corrected Maximum Dry Density : 114.8 PCF Corrected Optimum Moisture Content Figure 3

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544
Boring No. : DLRP
Sample No. : KONAN-02

Depth : +--

Test Date : 05/20/02 Test Method : ASTM D 422 Filename : KONAN02 Elevation : ---Tested by : jlg

Checked by : jdt

Location : ---

Soil Description : Moist, light yellowish brown sand w/ silt & gravel

Remarks : ---

		COAL	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
	2+5+++				*****
3"	2.996	76.10	0.00	0.00	100
2"	2.000	50.80	388.00	388.00	98
1.5"	1.500	38.10	229.00	617.00	97
14	1.012	25.70	131.00	748.00	96
0.75"	0.748	19.00	145.00	893.00	96
0.5"	0.500	12.70	262.00	1155.00	95
0.375"	0.374	9.51	189.00	1344.00	94
#4	0.187	4.75	723.00	2067.00	90

Total Dry Weight of Sample = 21370

			FINE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)

#8	0.093	2.36	11.92	11.92	87
#16	0.047	1.19	21.58	33.50	81
#30	0.023	0.60	36.44	69.94	71
#50	0.012	0.30	57.39	127.33	55
#100	0.006	0.15	88.93	216.26	30
#200	0.003	0.07	70.49	286.75	11
Pan			38.86	325.61	0

Total Dry Weight of Sample = 333.73

D85 : 1.8730 mm
D60 : 0.3676 mm
D50 : 0.2568 mm
D30 : 0.1472 mm
D15 : 0.0861 mm

D10 : 0.0720 mm

Soil Classification

ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-a(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

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GEOTECHNICAL LABORATORY TEST DATA

Tost Method : ASTM D 422

Project : Devens Landfill Project No. : GTX-3544 Boring No. : DLRP

Depth : ---Tost Date : 06/06/02 Filename : KONANO3 Elevation : ---Tested by : smp/cmt Checked by : jdt

Sample No. : KONAN-03

Location : --Soil Description : Moist, yellowish brown sand with silt and gravel

Romarks : ---

		COAL	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumularive	Percent
Mesh	Inches	Millimeters	Recained (gm)	Weight Retained (gm)	Finer
				*** ********	*****
3"	2.996	76.10	0.00	0.00	100
Z **	2.000	50.80	215,00	218.00	99
1.5"	1.500	38.10	411.00	629.00	98
1"	1.012	25.70	453.00	1082.00	96
0.75"	0.748	19.00	621.00	1703.00	54
0.5"	0.500	12.70	796.00	3499,00	91
0.375"	0.374	9.51	522.00	3021,00	8.9
114	0.187	4.75	1436.00	4457_00	84
TATES O	m. Walne				

Total Dry Weight of Sample = 27450

			FINE SIEVE SET		
Sieve	Sieve O	ponings	Weight	Cumulative	Percent
Mosh	Inches	Millimeters	Recained (gm)	Weight Retained (gm)	Finer (%)
*********	*****				
#8	0.093	2,36	12.51	12.51	80
#15	0.017	1.19	26.71	39.22	70
	0.023	0.60	45.01	84.23	55
	0.012	0.30	52.33	136.56	37
t. J	0.006	0,15	46.13	182.69	22
#200	0.003	0.07	35.26	317.95	10
Pan			28.42	246.37	a

Total Dry Weight of Sample - 254.54

D85 : 5.5972 mm D60 : 0.7420 mm D50 : 0.4861 mm D30 : 0.2143 mm D15 : 0.1011 mm

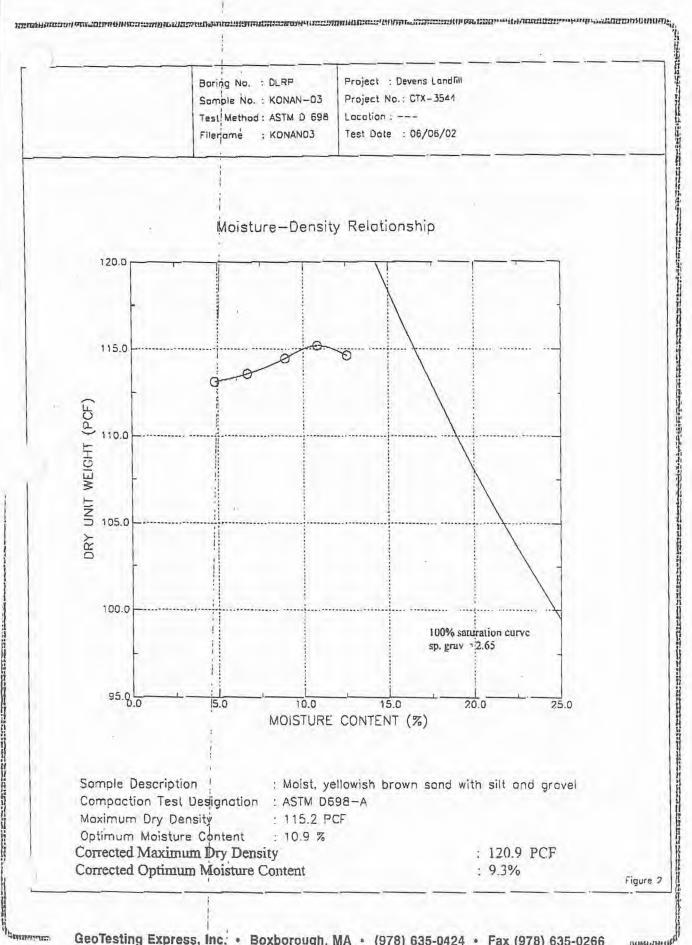
D10 = 0.0755 mm

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Soil Classification

ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-d(0)

AASHTO Group Name ; Stone Progments, Gravel and Sand



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Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Depth : ---

Filename : KONANO3

Project No. : GTX-3544

Test Date : 06/06/02

Elevation : - -

Boring No. : DLRP Sample No. : KONAN-03

Test Mechod : ASTM D 658

Tosted by : srp/cmt

Location : ---

Checked by : jdt

Soil Description : Moist, yellowish brown sand with silt and gravel

COMPACTION TEST

Mold ID

The state of the s

Method Used : ASTM D698-A Volume of Mold : 0.0333 fr^3

Mass of Mold

: 4332 gm

Specific Gravity : 2.65

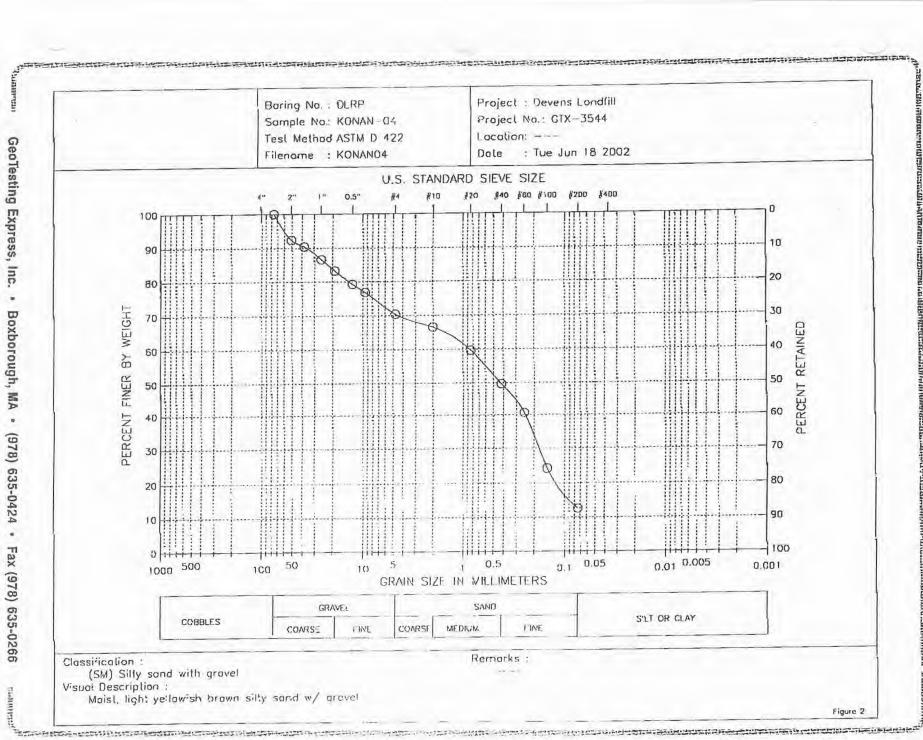
Moistur Content		Mass of Container + Moist Soil (gm)	Mass of Concainer Dry Soil (gm)	Mass of Mold - Specimen (gm)	Content (%)	Density (PCP)

kib	8.27	277.39	265,01	6123.00	1.8	113.1
rpll	8.30	228.18	214.30	6163.00	6.7	113.6
gtxl	B.20	334.79	308.03	6215.00	A . 9	114.4
donuts	8.24	446.75	403.93	6260,00	10.8	115.2
tab5	8.10	482,56	429.56	6281.00	12.6	114.6
	Optimum Dry Densi	ty - 115.2 PCF				
	Oorimum Mospruma	Contract - alo n &				

size correction (16% > No. 4 sieve): Corrected Maximum Dry Density : 120.9 PCF

Corrected Optimum Moisture Content : 9.3%

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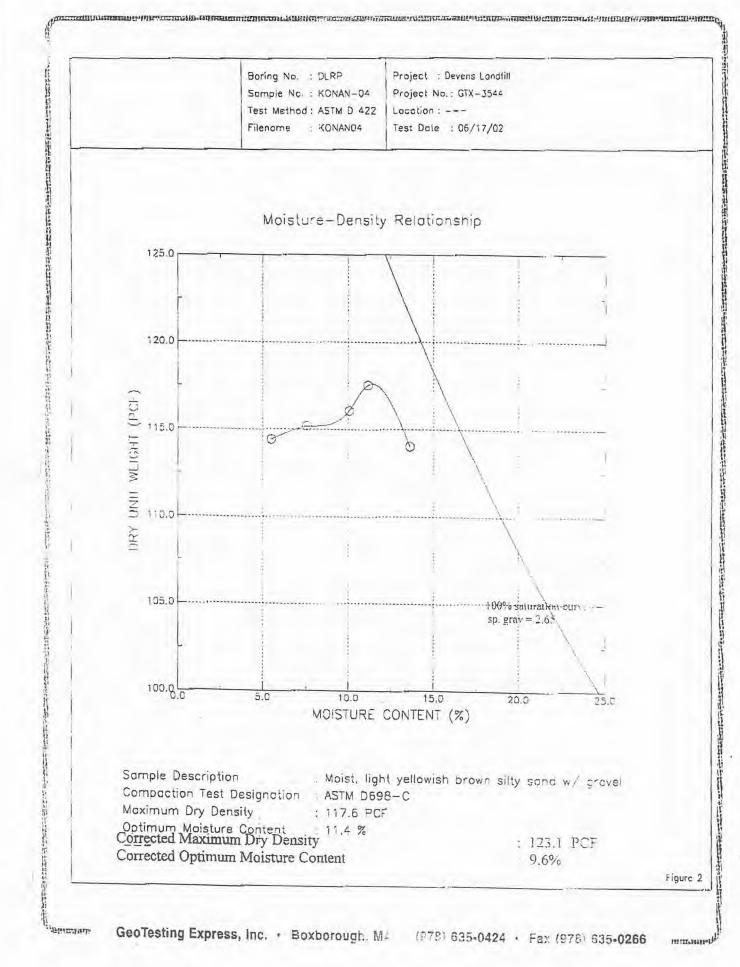
		COA	RSE SIEVE SET		
Sievo	Sieve O	penings	Weight	Cumulative	Percent
Meeh	Inches	Millimoters	Retained (gm)	Weight Retained (gm)	Finer (%)
********		********	*******		BARRER
3.0	2.996	75.10	0.00	0.00	100
2"	2.000	50.80	1701.00	1701,00	92
2.5	1.500	38.10	424.00	2125.00	90
1"	1.012	25.70	863,00	2988.00	27
0.75"	0.748	15.00	749.00	3737,00	53
Total D	ry Waight	of Sample = 223	40		

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ide Jun 18 1	1:42:11 200		AMBOTTALE DE LA LIVE	ORATORY TEST DATA			rage : 1	
			JIBOHNICAL DAS	ORAIGRI IBRI DAIA	m/1/20222			
Project : De Project No.	: GTX-3544	D	epth :		Filenamo : Elevation	1		
Boring No. : Sample No. :			est Date : 06/: est Mathod : Al		Tosted by Checked by			
Location : - Soil Descrip		t. light vello	wish brown sil	ty sand w/ gravel		13,000		
Remarks :				* 15025 W * 15125				
Sievo	Fierra Oo	COM enings	RSE SIEVE SET	Cumulative	Percent			
Megh	Inches	Millimoters	Retained (gm)		Fines (%)			
3"	2.996	75.10	0.00	0.00	100			
2"		50.80 38.10	1701.00	1701,60 2125.00	92 90			
1 ^r	1.012	25.70	424.00 863.00	2988.00				
0 75" Total D		15.00 f Sampl≐ = 223	749.00 40	3737.00	6.3			
		A CONTRACTOR OF THE PARTY OF TH	INS STEVE SET					
Sueve Nesa		enings Millimeters	Weigh-					
			(gir)	(G#)	(%)			
(E)	0.500	12.75	25.57	13,52	79			
0 /276° #4	0.374	5.51	1 4E 74.75	24.57				
410	2.075		15 65	54.72				
#2C #40	0.033		Z6.4:	91.17				
#4V #50	0.017		35.55 44.63	129.62 164.64				
2100	0.006	0.15	2) ±8	228,27				
±200 9an	0.002	¢ , 9 a	41.45	373.28 321.75	4.3			
Total I	lay Weight o	: 5cmple = 33:	94					
D65 32.20								
D50 , 425	is me							
D30 0.178	60 mm							
D10 C 063	is mm							
Sdil Classi	fication							
ASTN ASTN	Croup Symb	ol : SM	and with grave					
AASI	HTC Group Sy	mbol ; A-1-b(0)					
AASI	TTO Croup Na	me : Stone F	ragments Grav	rel and Sand				

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		DLING	T 111.	110

PROJECT Devens Landfill	PROJECT NUMB CTX - 3544	ER TESTED BY	BORING NUMB DLRP	JLK.
LOCATION		CHECKED BY	SAMPLE NUM KONAN-04	BER
SAMPLE DESCRIPTION Moist, light yellowish brown silty sand w/ grov	el	DATE Tue Jun 18 2007	FILENAME KONAND4	
	LIQUID LIMIT DE	TERMINATIONS		-,
CONTAINER NUMBER				
WT, WET SOIL + TARE				
WT, DRY SOIL + TARE				
WT. WATER				
TARE WT.				
WT. DRY SOIL				
WATER CONTENT, WN (%)				
NUMBER OF BLOWS, N			lines - Line	
ONE-POINT LIQUID LIMIT, LL		***		
	PLASTIC LIMIT D	ETERMINATIONS		
CONTAINER NUMBER				
WT. WET SOIL + TARE		1		
WT. DRY SOIL + TARE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
WT. WATER			1 3,000	
TARE WT.				
WT. DRY SOIL				
WATER CONTENT (%)				
		PLASTIC LIMIT, PL PLASTICITY INDEX, PI LIQUIDITY INDEX, LI* LI = (W - PL)/PI PLA RO TO -	ASTICITY CHART	CH as C
		10 - Q-W W W W O	50 60 70 80 IQUID LIMIT, LL	мн с 1 90 100 Fiç

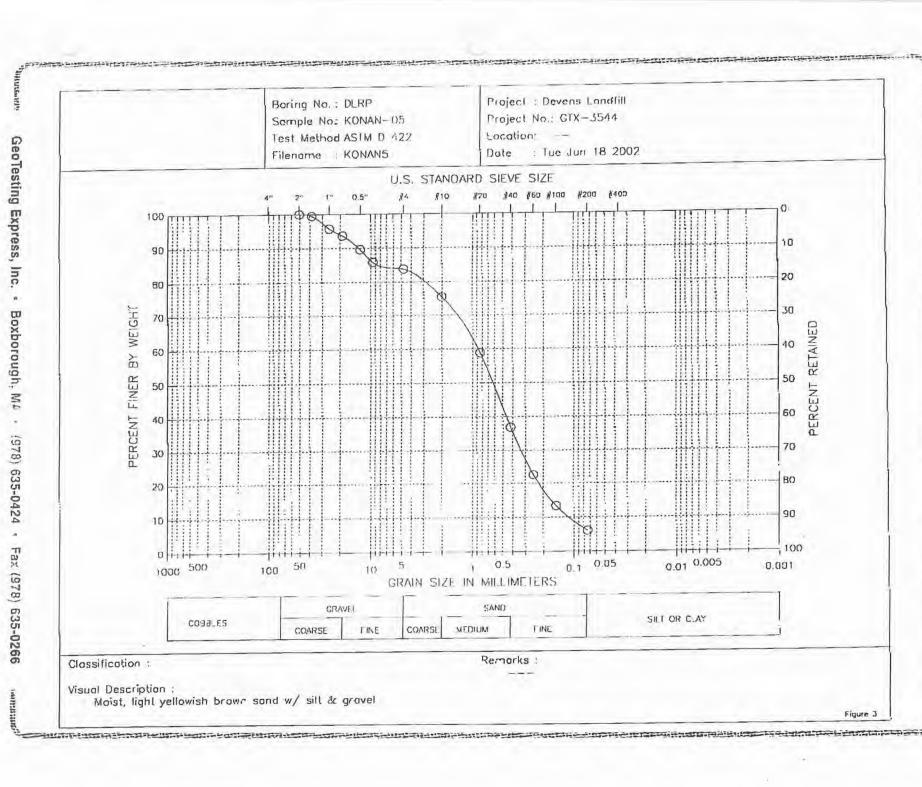


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activities and							
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		GEOTECHNICAL	LABORATORY TEST DATA				
Project No. Boring No.	: KONAN-04	Depth : Test Date : Test Mothod	06/17/02 : ASTM D 42Z	Filename : KONI Elevation : - Tested by : BIT Checked by : je	p		
	iption : Moist,	light yellowish brown	filty sand w/ gravel				
	4	COMPAC	TION TEST				
Mass of Mo	The second secon	fc*3					
Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Concainer - Dry Soil (gm)	Mass of Mold - Specimen (gm)	Moisture Content (%)	(PCF)	
dither r529 md119 tgb119	9.01 8.21 8.24 9.20	270.45 307.05 323.67 366.94	25G.81 286.11 294.85 330,99	10432,00 10564.00	5.5 7.5 10.1 11.3	114.4 115.2 116.1	
peg16 Op	8.17 timum Dry Densi	321.97 ty = 117.6 PCF Content - 11.4 %	284,35		12.6	114.0	

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GEOTECHNICAL LABORATORY TEST DATA

Test Method : ASTM D 422

Project : Devens Landfill

Project No. : GTX-3544 Boring No. : DLRP Sample No. : KONAN-05

Depth : ---Test Date : 06/17/02

Filenamo : KONANS Elevation : ---Tested by : srp Chocked by : jdr

Location : ---

Soil Description : Moist, light yellowish brown sand w/ silt & gravel

Remarks : ---

Sieve	Sieve O	penings	Weight	Cumplarive	Percent
Meah	Inches	Millimoters	Retained (gm)	Weight Retained (gm)	Finer (%)
********		*******			*****
2.0	2.000	50.80	0.00	0.00	100
1.5"	1,500	38,10	119.00	119.00	99
1 n	1.012	25.70	848.00	967.00	95
0.75"	0.748	19.00	461.00	1428.00	94
0.5"	0.500	12.70	921.00	2349.00	90
0.375"	0.374	9.51	949.00	3198.00	86
Total D	Ty Weight	of Sample = 226	39		400

			FINE SIEVE SET		
Sieve	Sieve O	peninge	Weight	Cumulative	Percent
Mesh	Inches	Millimetera	Rotained (gm)	Weight Rotained (gm)	Finer (%)

#4	0.187	4.75	7.12	7.12	84
#10	0.079	2.00	29.20	36.32	75
1120	0.033	0.81	57.09	93.41	53
440	0.017	0.42	75.98	169.39	37
1160	0.010	0.25	49.30	218.69	23
#100	0.006	0.15	32.12	250.81	13
#200	0.003	0.07	25.15	275.96	5
Pan			20.85	296.81	0

Total Dry Weight of Sample - 305.01

D85 : 7.0840 mm D60 : 0.8934 mm

D50 : 0.6359 mm D30 : 0.3272 mm

D15 : 0.1637 mm

D10 : 0.1094 mm

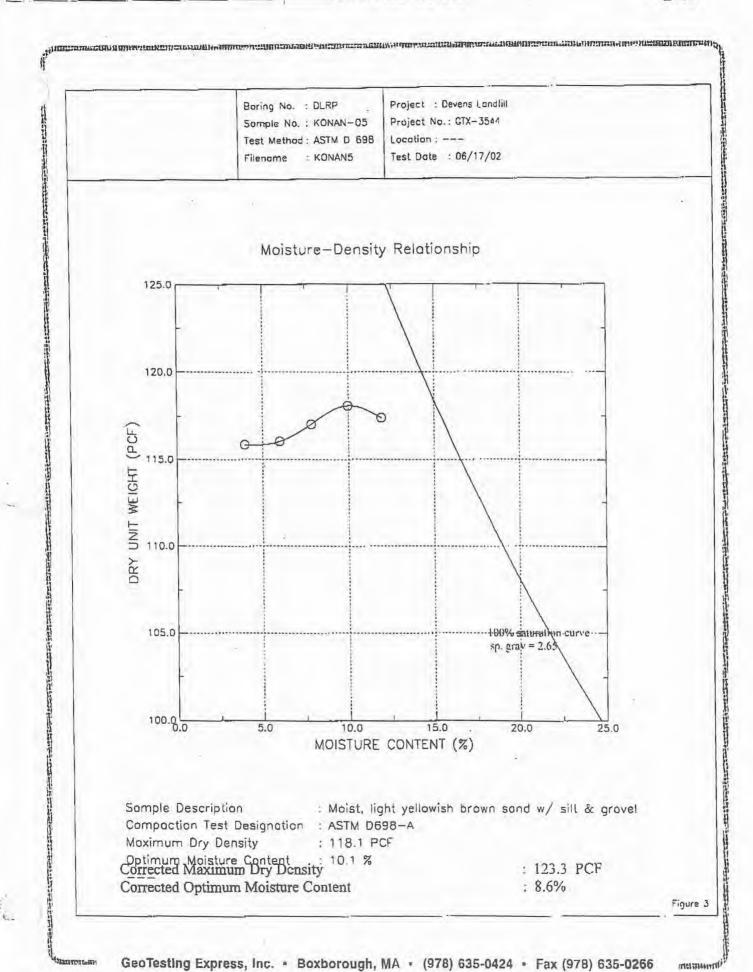
ig trestatives tax

Soil Classification

ASTM Croup Symbol : N/A ASTM Group Name : N/A

AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand



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GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

TX-3544 Depth : ---

Filename : KONANS Elevation ; ---Tested by : stp

Boring No. : DLRP Sample No. : KONAN-05 Test Date : 06/17/02 Test Method : ASTM D 698

Tested by : srp Checked by : jdt

Location : ---

Soil Description : Moist, light yellowish brown sand w/ silt & gravel Remarks : ---

COMPACTION TEST

Mold ID

Mothod Used : ASTM D698.A Volume of Mold : 0.0333 ft^3 Mass of Mold : 5263 gm Specific Gravity : 2.65

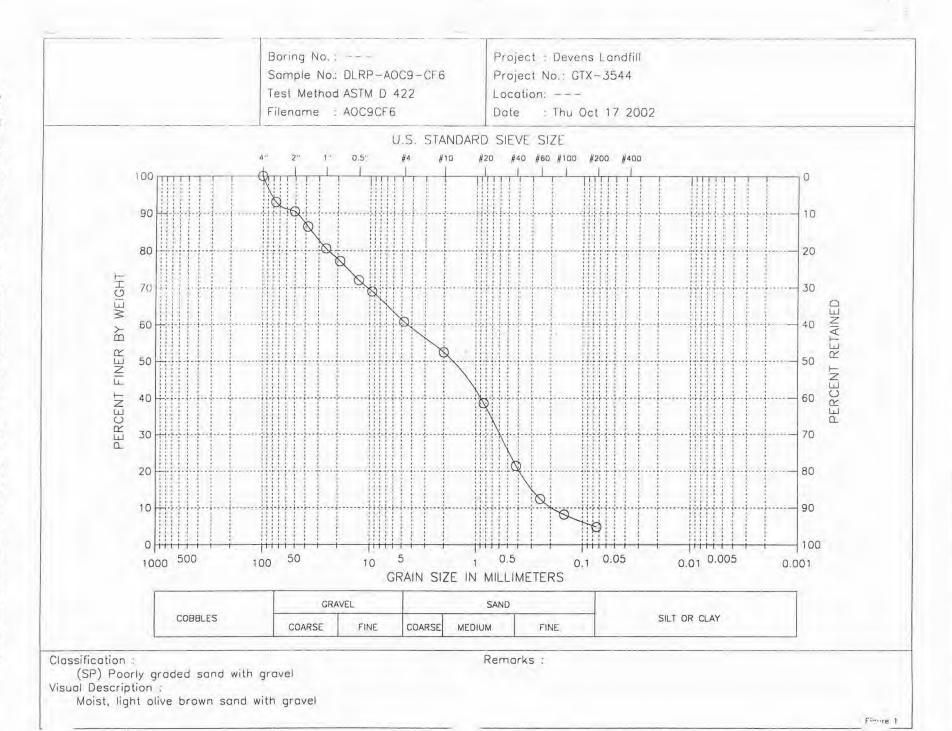
Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Maas of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
hhh	8.20	261.91	252.27	7082.00	3.9	115.9
clap	9.64	250.62	244.51	7121.00	6.0	116.0
tunas .	8.06	247.29	229.88	7769.00	7.8	117.0
mod	8.22	240.83	219.76	7224.00	10.0	118.1
lu	9.71	260.73	234.05	7247.00	11.9	117.4
	Ontimum Dane Dungies	110 7 DCF				

Optimum Dry Density = 118.1 PC Optimum Moisture Content = 10.1 %

Oversize correction (16% > 3/4 inch sieve):

Corrected Maximum Dry Density : 123.3 PCF

Corrected Optimum Moisture Content : 8.6%



GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : ---Sample No. : DLRP-AOC9-CF6 Location : ---

Depth : ---

Test Date : 10/11/02 Test Method : ASTM D 422 Filename : AOC9CF6 Elevation : ---Tested by : ja Checked by : jdt

Soil Description : Moist, light olive brown sand with gravel

Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
		~	~+=====	~******	
4"	4.000	101.60	0.00	0.00	100
3.11	2.996	76.10	2077.00	2077.00	93
2"	2.000	50.80	736.00	2813.00	90
1,5"	1.500	38.10	1194.00	4007.00	86
10	1.012	25.70	1714.00	5721.00	81
0.75"	0.748	19.00	1013.00	6734.00	77
0.5"	0.500	12.70	1509.00	8243.00	72
0.375"	0.374	9.51	882.00	9125.00	69
#4	0.187	4.75	2430.00	11555.00	61

			FINE SIEVE SET	2	
Sieve	Sieve O	penings	Weight	. Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
1883388478			*******	**********	
#10	0.079	2.00	46.67	46.67	52
#20	0.033	0.84	77.29	123.96	39
#4C	0.017	0.42	96.21	220.17	21
#60	0.010	0.25	50.03	270.20	12
#100	0.006	0.15	23.81	294.01	8
#200	0.003	0.07	19.00	313.01	5
Pan			26.67	339.68	0

Total Dry Weight of Sample = 347.78

D85 : 34.6679 mm D60 : 4.3867 mm D50 : 1.7188 mm D30 : 0.5947 mm D15 : 0.2902 mm

D10 : 0.1861 mm

Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand with gravel

AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : DLRP

Sample No. AOC9-CF6
Test Method: ASTM D 698

Test Wethod . ASIM D 6

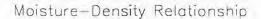
Filename AOC9CF6

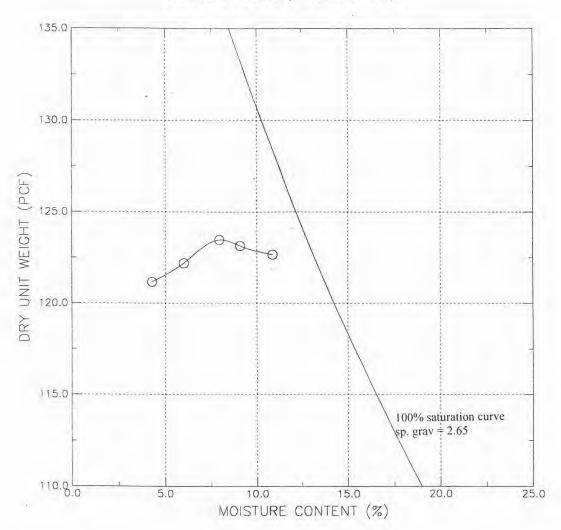
Project Devens Landfill

Project No.: GTX-3544

Location : ---

Test Date : 10/11/02





Sample Description : Moist, light olive brown sand with gravel

Compaction Test Designation : ASTM D698-C Maximum Dry Density : 123.5 PCF Optimum Moisture Content : 8.0 %

Corrected Maximum Dry Density
Corrected Optimum Moisture Content

: 6.4% Figure 1

: 130.2 PCF

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : DLRP Sample No. : AOC9-CF6 Depth : ---

Test Date : 10/11/02 Test Method : ASTM D 698 Filename : AOC9CF6 Elevation : ---Tested by : ja Checked by : jdt

Location : ---

Soil Description : Moist, light olive brown sand with gravel

Remarks :

COMPACTION TEST

Mold ID

Method Used : ASTM D698-C Volume of Mold : 0.075 ft^3 Mass of Mold : 6271 gm Specific Gravity : 2.65

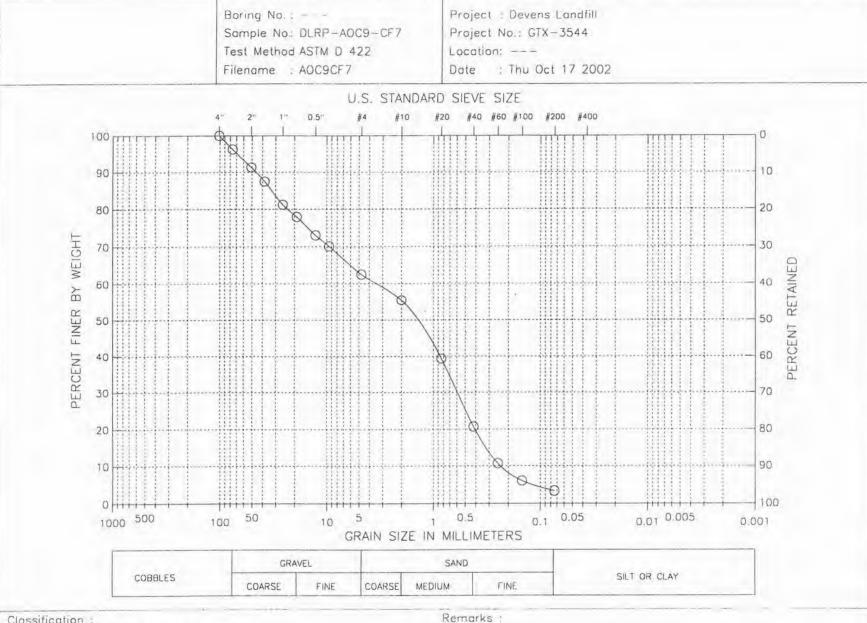
Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)
2	8.04	249.44	239.50	10570.00	4.3	121.2
3	8.13	240.51	227 - 32	10678.00	6.0	122.2
4	8.07	329.75	306.08	10805.00	7.9	123.5
5	8.19	327.36	300.76	10841.00	9.1	123.1
6	8.14	268.35	242.87	10897.00	10.9	122.7
	Optimum Dry Density	= 123.5 PCF				

Oversize correction ($23\% > \frac{3}{4}$ inch sieve):

Optimum Moisture Content = 8.0 %

Corrected Maximum Dry Density : 130.2 PCF

Corrected Optimum Moisture Content : 6.4%



Classification :

(SP) Poorly graded sand with gravel

Visual Description :

Moist, brown sand with gravel

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill Project No. : GTX-3544

Boring No. : ---Sample No. : DLRP-AOC9-CF7 Depth : ---

Test Date : 10/11/02 Test Method : ASTM D 422 Filename : AOC9CF7 Elevation : ---Tested by : ja Checked by : jdt

Location : ---

Soil Description : Moist, brown sand with gravel

		COA	RSE SIEVE SET		
Sieve	Sieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
4"	4.000	101.60	0.00	0.00	100
3"	2.996	76.10	967.00	967.00	96
2"	2.000	50.80	1277.00	2244.00	91
1.58	1.500	38.10	987.00	3231.00	88
2"	1,012	25.70	1633.00	4864.00	81
0.75"	0.748	19.00	856.00	5720.00	78
0.50	0.500	12.70	1273.00	6993.00	73
0.375"	0.374	9,51	763.00	7756.00	70
#4	0.187	4.75	1963.00	9719.00	63

Total Dry Weight of Sample = 25932

Jaiotto	The second State	No or William
FINE	SIEVE	SET

Sieve	Sieve O	penings	Weight	· Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)

#10	0.079	2.00	42.20	42.20	55
#20	0.033	0.84	96.71	138.91	39
#40	0.017	0.42	111.89	250.80	21
#60	0.010	0.25	59.93	310.73	11
#100	0.006	0.15	27.92	338.65	6
#200	0.003	0.07	16.17	354.82	3
Pan			19.98	374.80	0

Total Dry Weight of Sample = 382.88

D85 : 32.5044 mm D60 : 3.4846 mm D50 : 1.4900 mm D30 : 0.5939 mm D15 : 0.3127 mm 300 : 0.2316 mm

Scil Classification

ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand with gravel

AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : DLRP

Sample No.: AOC9-CF7

Test Method: ASTM D 698

Filenome : AOC9CF7

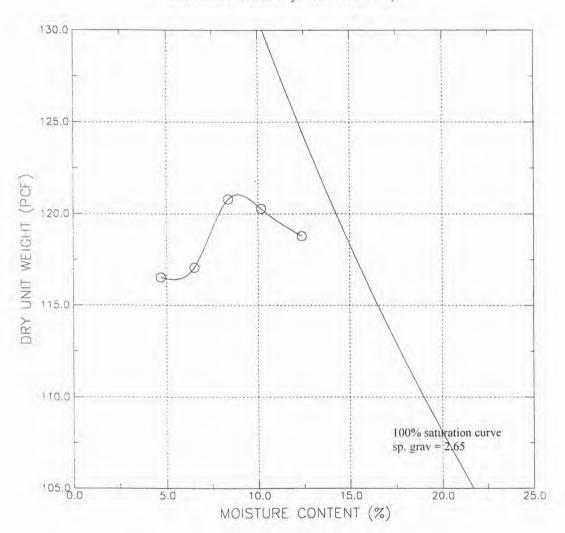
Project : Devens Landfill

Project No.: GTX-3544

Location ----

Test Date : 10/11/02

Moisture-Density Relationship



Sample Description

: Moist, brown sand with gravel

Compaction Test Designation : ASTM D698-C Maximum Dry Density

: 121.1 PCF

Optimum Moisture Content

: 8.9 %

Corrected Maximum Dry Density Corrected Optimum Moisture Content : 132.7 PCF

: 6.4%

Figure 2

GEOTECHNICAL LABORATORY TEST DATA

Project : Devens Landfill

Project No. : GTX-3544

Boring No. : DLRP Sample No. : AOC9-CF7 Depth : ---

Test Method : ASTM D 698

Test Date : 10/11/02

Filename : AOC9CF7 Elevation : ---Tested by : ja Checked by : jdt

Location : ---

Soil Description : Moist, brown sand with gravel

COMPACTION TEST

Mold ID

: ASTM D698-C Method Used Volume of Mold : 0.075 ft^3
Mass of Mold : 6059 gm Specific Gravity : 2.65

Moisture Content ID	Mass of Container (gm)	Mass of Container + Moist Soil (gm)	Mass of Container + Dry Soil (gm)	Mass of Mold + Specimen (gm)	Moisture Content (%)	Dry Density (PCF)

1	8.31	449.05	429.31	10209.00	4.7	116.5
2	8.22	428.58	402.85	10301.00	6.5	117.1
3	8.19	526.05	485.99	10513.00	8.4	120.8
4	8.34	541.54	492.34	10567.00	10.2	120.3
5	8.19	527.49	470.29	10600.00	12.4	118.8
0	ptimum Dry Densi	ty = 121.1 PCF				
0	ptimum Moisture	Content = 8.9 %	¥			

Oversize correction ($22\% > \frac{3}{4}$ inch sieve):

Corrected Maximum Dry Density : 132.7 PCF

Corrected Optimum Moisture Content : 6.4%

Test ID	Date	Location	Coordinates (NAD83) Northing	Coordinates (NAD83) Easting	Elevation (Feet)	Compaction, %	Moisture Content, %	Dry Density, pcf	Pass/Fail (P/F)	Comments
CT-40-001	4-Jun-02	AOC-40 (South Slope)	3018304.13	628301.59	240.98	95,5	5.2	109.7	Р	Slope Lift 1 (STA 11+42, 55' N)
CT-40-002	4-Jun-02	AOC-40 (South Slope)	3018300.45	628304.47	242.94	91.6	4.9	105.6	P	Slope Lift 2 (STA 11+40, 51° N)
CT-40-003	4-Jun-02	AOC-40 (South Slope)	3018302,86	628293.72	244.07	96,5	5.1	110.8	P	Slope Lift 3 (STA 11+50, 55' N)
CT-40-004	5-Jun-02	AOC-40 (South Slope)	3018328.41	628384.13	237.69	91.1	6.0	104.7	Р	Slope Lift 1 (STA 10+50, 65" N)
CT-40-005	5-Jun-02	AOC-40 (South Slope)	3018297.58	628359,34	244.98	94.1	6.3	108.1	Þ	Slope Lift 4 (STA 11+00, 38' N)
CT-40-006	5-Jun-02	AOG-40 (Floor)	3018372.35	628344.83	231,98	97,1	4.7	111,5	P	Slope Lift 1 (STA 11+90, 115' N)
CT-40-007	5-Jun-02	AOC-40 (Floor)	3018365,55	628281,92	232.7	97.6	3.8	112.1	P	Slope Lift 1 (STA 11+50, 120' N)
CT-4U-008	5-Jun-02	AOC-40 (South Slope)	3018323,74	628405.85	238.19	91,7	6.9	105.3	P	Slope Lift 2 (STA 10+40, 57' N)
CT-40-009	5-Jun-02	AOC-40 (South Slope)	3018304.06	628386.67	241,64	102.3	5,0	117.5	Р	Slope Lift 3 (STA 11+50, #1"N)
CT-40-010	5-Jun-02	AOC-40 (South Slope)	3018297.40	628315.04	245.58	91,7	6.6	105.4	P	Slope Lift 5 (STA 11+00, 45' N)
CT-40-011	5-Jun-02	AOC-40 (South Slope)	3018296.81	628315.43	245.6	93.8	6.2	107.8	P	Slope Lift 5 (STA 11+00; 48' N)
CT-40-012	5-Jun-02	AOC-40 (South Slope)	3018311.14	628330.81	245.11	92.8	5.4	106.5	P	Slope Lift 5 (STA 11+00, 57' N)
CT-40-013	5-Jun-02	AOC-40 (South Slope)	3018305.83	628341.52	.243,67	95.7	6.0	109.9	P	Slope Lift 4 (STA 11+20, 55' N)
CT-40-014	5-Jun-02	AOC-40 (South Slope)	3018314.99	628375.54	243,69	90.4	6.1	103.9	P	Slope Lift 4 (STA 10+75, 54' N)
CT-40-015	10-Jun-02	AOC-40 (South Slope)	3018293.23	628281.18	247.23	90,0	4.3	119.7	Р	Slope Lift 1 (STA 11+75, 50' N)
CT-40-016	10-Jun-02	AOC-40 (South Slope)	3018297.27	628313.52	247.32	91.9	4.6	122.1	Þ	Slope Lift 1 (STA 11+50, 50' N)
CT-40-017	10-Jun-02	AOC-40 (South Slope)	3018302,92	628343.17	247.17	94.6	4.6	125.8	Р	Slope Lift 1 (STA 11+25, 50' N)
CT-40-018	10-Jun-02	AOC-40 (South Slope)	3018305,62	628351.26	247,25	89.3	4.4	131.9	P	Slope Lift 1 (STA 11+00-50'N)
CT-40-019	10-Jun-02	AOC-40 (South Slope)	3018301.31	628366.08	247.32	98.2	4.7	130.5	è	Slope Lift 1 (STA 10+75, 50' N)
CT-40-020	10-Jun-02	AOC-40 (South Slope)	3018312.08	628385,49	247.37	93.5	3.9	124.3	P.	Slope Lift 1 (STA 10+50, 50' N)
CT-40-021	10-Jun-02	AOC-40 (South Slope)	3018308.85	628410.28	247.41	95.6	5.3	127 1	Р	Slope Lift 1 (STA 10+25, 50' N)
CT-40-022	10-Jun-02	AOC-40 (South Slope)	3018292.96	628302.47	248.32	95.2	4.8	126.6	Р	Slope Lift 2 (STA 11+50, 50' N)
CT-40-023	10-Jun-02	AOC-40 (South Slope)	3018301.85	628322.96	248.34	92.8	6.2	123.4	Р	Slope Lift 2 (STA 11+25, 50' N)
CT-40-024	10-Jun-02	AOC-40 (South Slope)	3018304.27	628346,14	248,44	94.0	6.8	124.9	P	Slope Lift 2 (STA 11+00, 50' N)
CT-40-025	10-Jun-02	AOC-40 (South Slope)	3018305.89	628367.16	248.22	97.8	6.1	129.9	P	Slope Lift 2 (STA 10+75, 50' N)
CT-40-026	10-Jun-02	AOC-40 (South Slope)	3018308.58	628388.99	248.12	97.7	6,5	129.9	Þ	Slope Lift 2 (STA 10+50, 50' N)
CT-40-027	10-Jun-02	AOC-40 (South Slope)	3018312.08	828410.82	248,21	95,3	6.3	126.6	Þ	Slope Lift 2 (STA 10+25, 50' N)
CT-40-028	10-Jun-02	AOC-40 (South Slope)	3018293.77	628275.25	248.45	94.5	5,4	125.6	þ	Slope Lift 2 (STA 11+75, 50' N)
CT-40-029	10-Jun-02	AOC-40 (South Slope)	3018295.38	628300.32	249:37	95,3	5,9	126.7	P	Slope Lift 3 (STA 11+50, 50' N)

CT-40-030	10-Jun-02	AOC-40 (South Slope)	3018297,81	628328.62	249,35	95,5	5.2	126.9	P	Slope Lift 3 (STA 11*25, 50' N)
CT-40-031	10-Jun-02	AOC-40 (South Slope)	3018299.69	628344.79	249.29	97.7	5.2	129.8	P	Slope Lift 3 (STA 11+00, 50' N)
CT-40-032	10-Jun-02	AOC-40 (South Slope)	3018304.54	628367.97	249.34	92.7	5,4	123.2	Р	Slope Lift 3 (STA 10+75, 50' N)
CT-40-033	10-Jun-02	AOC-40 (South Slope)	3018306.69	628392.49	249.4	94,3	5.5	125.3	P	Slope Lift 3 (STA 10+50, 50' N)
CT-40-034	10-Jun-02	AOC-40 (South Slope)	3018310.46	628427.26	249.31	91.3	4.7	121.4	P	Slope Lift 3 (STA 10+25, 50' N)
CT-40-035	11-Jun-02	AOC-40 (South Slope)	3018297.54	628285.76	249.43	95.2	4.6	126.5	Р	Stope Lift 3 (STA 11+75, 50' N)
CT-40-036	1)-Jun-02	AOC-40 (South Slope)	3018297.00	628305.71	250.11	99.6	5.2	132.3	Р	Slope Lift 4 (STA 11+50, 50°N)
CT-40-037	11-Jun-02	AOC-40 (South Stope)	3018299.69	628337.51	250.19	98.3	5,5	130.6	Р	Slope Lift 4 (STA 11+25, 50° N)
CT-40-038	11-Jun-02	AOC-40 (South Slope)	3018299.96	628349.37	250.15	94.1	5.7	125.1	P	Slope Lift 4 (STA 11+00, 50' N)
CT-40-039	11-Jun-02	AOC-40 (South Slope)	3018299.42	628362.58	250.25	94,5	6.0	125,6	P	Slope Lift 4 (STA 10+75, 50' N)
CT-40-040	11-Jun-02	AOC-40 (South Slope)	3018311.81	628391,69	250,23	93.8	5.1	124.7	Þ	Slope Lift 4 (STA 10+50, 50' N)
CT-40-041	11-Jun-02	AOC-40 (South Slope)	3018313.43	628419.72	250,35	95,3	6.2	126.7	P	Slope Lift 3 (STA 10+25, 50' N)
CT-40-042	11-Jun-02	AOC-40 (South Slope)	3018317.20	628434.54	250.36	94.0	6.5	124.9	Р	Slope Lift 4 (STA 11+00, 50' N)
CT-40-043	11-Jun-02	AOC-40 (South Slope)	3018305.35	628369.32	251.42	95,3	6,1	126.6	P	Slope Lift 5 (STA 10+75, 50' N)
CT-40-044	11-Jun-02	AOC-40 (South Slope)	3018306.42	628385.22	251.25	93.2	6.2	123.9	Р	Slope Lift 4 (STA 10+50, 50' N)
CT-40-045	11-Jun-02	AOC-40 (South Slope)	3018314.50	628418,10	251.3	94.6	5.4	125.7	Þ	Slope Lift 4 (STA 10+25, 50' N)
CT-40-046	12-Jun-02	AOC-40 (South Slope)	3018330.54	628451.80	235.22	93.3	5.0	124.0	P	Slope Lift 1 (STA 10+00, 50' N)
CT-40-047	13-Jun-02	AOC-40 (North Slope)	3018413.71	628451.37	236.5	94.5	6.7	125.9	Р	Slope Lift 1 (STA 9+90, 175' N)
CT-40-048	13-Jun-02	AOC-40 (North Slope)	3018432.67	628512.19	237.4	94.2	4,1	125.2	P	Stope Lift 1 (STA 9+00, 200 N)
CT-40-049	17-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	237.55	98,7	6.7	131.1	Р	Slope Lift 1 (STA 10+10, 70' N)
CT-40-050	17-Jun-02	AQC-40 (North Slope)	3018325,21	628461.35	237.64	93,1	6,5	123.7	p	Slope Lift 1 (STA 9+85, 70' N)
CT-40-051	17-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	237.39	89,0	4.5	119.4	P	Slope Lift 1 (STA 9+60, 70' N)
CT-40-052	17-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	237.30	90,8	4.5	120.7	P	Slope Lift 1 (STA 9+35, 70' N)
CT-40-053	17-Jun-02	AQC-40 (North Slope)	3018318.77	628435 16	238.55	91.3	6.3	121.3	Р	Slope Lift 2 (STA 10+10, 70' N)
CT-40-054	17-Jun-02	ACC-40 (North Slope)	3018325,21	628461.35	238.64	92,7	7.2	123.2	P	Slope Lift 2 (STA 9+85, 70' N)
CT-40-055	17-Jun-02	ACC-40 (North Stope)	3018326 40	628489.26	238.39	93.3	E.3	124.1	р	Slope Lift 2 (STA 9+80, 70' N)
CT-40-056	17-Jun-02	AOC-40 (North Stope)	3018334.56	628510.79	238.30	92.8	6,9	123.4	P	Slope Lift 2 (STA 9+35, 70' N)
CT-40-057	18-Jun-02	ADC-40 (North Slope)	3018293,23	628281.18	237.5	92.8	5.7	123.3	Р	Slope Lift 1 (STA 11+75, 70' N)
CT-40-058	18-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	239.55	92.9	5.2	123.4	P/	Slope Lift 3 (STA 10+10, 70' N)
CT-40-059	1B-Jun-02	AOC-40 (North Slope)	3018325,21	628461.35	239,64	89,3	4.6	118.6	F	Slope Lift 3 (STA 9+85, 70' N)
CT-40-060	18-Jun-02	AOC-40 (North Slope)	3018325.21	628461.35	239 64	90,4	6.2	120.2	Р	Slope Lift 3 (STA 9+85, 70' N) Rete of CT-40-661

CT-40-061	18-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	239.39	92,5	5,8	122.9	p	Slope Lift 3 (STA 9+60, 70' N)
CT-40-062	18-Jun-02	AOC-40 (North Slope)	3018334,56	828510.79	239,30	91.4	6.1	121.5	Р	Slope Lift 3 (STA 9+35, 70' N)
CT-40-063	18-Jun-02	AOC-40 (North Slope)	3018354.93	628522.46	238.4	93.7	5.9	124,5	P	Slope Lift 2 (STA 9+10, 70' N)
CT-40-064	18-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	240,55	90.4	7.0	120,2	P	Slope Lift 4 (STA 10+10, 70' N)
CT-40-065	18-Jun-02	AOC-40 (North Slope)	3018325,21	628461.35	240,64	92,0	6.4	122,3	P	Slope Lift 4 (STA 9+85, 70' N)
CT-40-066	18-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	240.39	93.8	6.3	124.4	Р	Slope Lift 4 (STA 9+60, 70' N)
CT-40-067	18-Jun-02	AOC-40 (North Slope)	3018334,56	628510.79	240.30	91.1	6.3	121.0	P	Slope Lift 4 (STA 9+35, 70' N)
CT-40-068	18-Jun-02	AOC-40 (North Slope)	3018354.93	628522.46	239.5	90.8	6.0	120.7	Р	Slope Lift 3 (STA 9+10, 70' N)
CT-40-069	18-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	241,55	90,5	4.6	120.2	Р	Slope Lift 5 (STA 9+35, 70' N)
CT-40-070	18-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	241.64	94.4	3.4	125.4	Р	Slope Lift 5 (STA 9+60, 70' N)
CT-40-071	18-Jun-02	AOC-40 (North Slope)	3018325.21	628461,35	241,39	90.6	5,2	120.4	Р	Slope Lift 5 (STA 9+85, 70' N)
CT-40-072	18-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	241,30	95.2	5,4	126,5	P	Slope Lift 5 (STA 10+10, 70' N)
CT-40-073	18-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	242.55	93.1	5.3	123.7	Р	Slope Lift 6 (STA 10+10, 70' N)
CT-40-074	18-Jun-02	AOC-40 (North Slope)	3018325.21	628461.35	242.64	90.9	7.6	120.8	Р	Slope Lift 6 (STA 9+85, 70' N)
CT-40-075	18-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	242.39	93,0	4.6	123,6	Р	Slope Lift 6 (STA 9+60, 70' N)
CT-40-076	18-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	242,30	90.8	4.6	120,7	Р	Slope Lift 6 (STA 9+35, 70' N)
CT-40-077	19-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	243.55	91.0	5.7	120.9	Р	Slope Lift 7 (STA 10+10, 70' N)
CT-40-078	19-Jun-02	AOC-40 (North Slope)	3018325,21	628461.35	243.64	91,9	6.1	122.2	Р	Slope Lift 7 (STA 9+85, 70' N)
CT-40-079	19-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	243.39	90.5	5.8	120,3	Р	Slope Lift 7 (STA 9+60, 70° N)
CT-40-080	19-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	243.30	90,1	5.5	119.7	P	Slope Lift 7 (STA 9+35, 70' N)
CT-40-081	19-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	244.55	91.5	6.5	121.7	р	Slope Lift 8 (STA 10+10, 60' N)
CT-40-082	19-Jun-02	AOC-40 (North Slope)	3018325.21	628461.35	244.64	90.5	6.9	120.3	P	Slope Lift 8 (STA 9+85, 60' N)
CT-40-083	19-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	244,39	93,0	5,2	123.6	Р	Slope Lift 8 (STA 9+60, 60' N)
CT-40-084	19-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	244.30	97.3	4.8	129.3	Р	Slope Lift 8 (STA 9+35, 60' N)
CT-40-085	19-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	245.85	91.0	6,9	121.0	P	Slope Lift 9 (STA 10+10, 60' N)
CT-40-086	19-Jun-02	AOC-40 (North Slope)	3018325.21	628461.35	245.64	91.3	7.0	121,4	Р	Slope Lift 9 (STA 9+85, 60' N)
CT-40-087	19-Jun-02	AOC-40 (North Slope)	3018326,40	628489,26	245.39	90.6	6.2	120.4	P	Slope Lift 9 (STA 9+60, 60' N)
CT-40-088	19-Jun-02	AOC-40 (North Slope)	3018334,56	628510.79	244,30	91.5	5,8	121.6	Р	Slope Lift 9 (STA 9+35, 60' N)
CT-40-089	20-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	246.85	93.0	5,6	123,6	Р	Slope Lift 10 (STA 10+10, 50' N)
CT-40-090	20-Jun-02	AOC-40 (North Slope)	3018325.21	628461.35	246.64	91.2	6.7	121.2	Р	Slope Lift 10 (STA 9+85, 50' N)
OT-40-091	20-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	246.39	93.5	7.5	124.3	P	Slope Lift 10 (STA 9+60, 50' N)

CT-40-092	20-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	246.30	91.7	6,4	121.8	P	Slope Lift 10 (STA 9+35, 50' N)
CT-40-093	20-Jun-02	AOC-40 (North Slope)	3018354.93	628522.46	240.45	92.1	6.4	122,5	Р	Slope Lift 4 (STA 9+10, 50' N)
CT-40-094	20-Jun-02	AOC-40 (North Slope)	3018348.06	628570.77	238.5	91.8	5,8	122.1	P	Stope Lift 1 (STA 8+85, 50' N)
CT-40-095	20-Jun-02	AOC-40 (North Slope)	3018318.77	628435.16	247.85	93,4	5,5	124.2	Р	Slope Lift 11 (STA 10+10, 50' N)
CT-40-096	20-Jun-02	AOC-40 (North Slope)	3018325.21	628461.35	247.64	96.0	4.8	118.3	P	Slope Lift 11 (STA 9+85, 50' N)
CT-40-097	20-Jun-02	AOC-40 (North Slope)	3018326.40	628489.26	247,39	97.3	6.1	120,0	Р	Slope Lift 11 (STA 9+60, 50' N)
CT-40-098	20-Jun-02	AOC-40 (North Slope)	3018334.56	628510.79	247.30	97.2	5.0	119.9	P	Slope Lift 11 (STA 9+35, 50' N)
CT-40-099	20-Jun-02	AOC-40 (North Slope)	3018354.93	628522.46	239.64	97.7	7.7	120,5	P	Slope Lift 3 (STA 9+10, 50' N)
CT-40-100	20-Jun-02	AOC-40 (North Slope)	3018348.06	628570.77	238.53	97.6	6.1	120.4	P	Slope Lift 2 (STA 8+85, 55' N)
CT-40-101	20-Jun-02	AOC-40 (North Slope)	3018351.10	628589.03	240,3	99.8	7.0	123.1	Р	Slope Lift 1 (STA 8+60, 55' N)
CT-40-102	20-Jun-02	AOC-40 (North Slope)	3018351.10	628589,03	237.34	99.5	6.6	122.7	P	Slope Lift 2 (STÁ 8+60, 55' N)
CT-40-103	20-Jun-02	AOC-40 (North Slope)	3018318.67	628420.26	248,55	98.2	4.9	121,0	Р	Slope Lift 12 (STA 10+25, 50' N)
CT-40-104	20-Jun-02	AOC-40 (North Slope)	3018322.72	628443.25	248.44	95,5	4.6	117.7	Р	Slope Lift 12 (STA 10+00, 50' N)
CT-40-105	20-Jun-02	AOC-40 (North Slope)	3018326.10	628469.28	248.49	95.4	4.9	117.6	P	Slope Lift 12 (STA 9+75, 50' N)
CT-40-106	20-Jun-02	AOC-40 (North Slope)	3018332.18	628501.06	248,37	96,4	4.4	118.8	P	Slope Lift 12 (STA 9+50, 50' N)
CT-40-107	20-Jun-02	AOC-40 (North Slope)	3018335.56	628522.02	242.67	98.7	4.8	121.7	Р	Slope Lift 6 (STA 9+25, 50' N)
CT-40-108	20-Jun-02	AOC-40 (North Slope)	3018344.68	628542.98	239,65	97.6	5.4	120,4	P	Slope Lift 3 (STA 9+00, 55' N)
CT-40-109	20-Jun-02	AOC-40 (North Slope)	3018343.56	628570.35	248.65	97.6	5.4	120.4	Р	Slope Lift 12 (STA 8+75, 55' N)
CT-40-110	24-Jun-02	AOC-40 (North Slope)	3018318.67	628420.26	249.44	98.1	3.6	121,1	P	Slope Lift 13 (STA 10+25, 50' N
CT-40-111	24-Jun-02	AOC-40 (North Slope)	3018322.72	628443.25	249.49	102.1	5.4	125.9	P	Slope Lift 13 (STA 10+00, 50' N)
CT-40-112	24-Jun-02	AOC-40 (North Slope)	3018326.10	628469.28	249.37	98.8	49	121.8	Р	Slope Lift 13 (STA 9+75, 50' N)
CT-40-113	24-Jun-02	AOC-40 (North Slope)	3018332.18	628501.06	249.47	99,1	4.3	122.2	P	Slope Lift 13 (STA 9+50, 50' N)
CT-40-114	24-Jun-02	AOC-40 (North Slope)	3018335.56	628522.02	243.67	95.3	4.7	117.5	P	Slope Lift 7 (STA 9+25, 50' N)
CT-40-115	24-Jun-02	AOC-40 (North Slope)	3018344.68	628542.98	240,65	96,5	3.4	118.9	P	Slope Lift 4 (STA 9+00, 55' N)
CT-40-116	24-Jun-02	AOC-40 (North Slope)	3018343.56	628570.35	240.35	100,0	3.7	123.4	P	Slope Lift 4 (STA 8+75, 55' N)
CT-40-117	24-Jun-02	AOC-40 (North Slope)	3018315.10	628394.83	250.49	96.7	5.4	119.2	Р	Slope Lift 14 (STA 10+50, 50' N)
CT-40-118	24-Jun-02	AQC-40 (North Slope)	3018322.72	628443.25	250.37	98,3	6.1	121.2	P	Slope Lift 14 (STA 10+00, 50' N)
CT-40-119	24-Jun-02	AOC-40 (North Slope)	3018332.18	628501.06	250,47	100.1	5.3	123.4	Р	Slope Lift 14 (STA 9+50, 50' N)
CT-40-120	24-Jun-02	AOC-40 (North Slope)	3018345.15	628545.03	244.67	98.6	5.9	122.8	P	Slope Lift 8 (STA 9+00, 50' N)
CT-40-121	24-Jun-02	AOC-40 (North Slope)	3018351.88	628593,68	241.34	101.6	4.1	126.2	P	Slope Lift 5 (STA 8+50, 50' N)
CT-40-122	25-Jun-02	AOC-40 (North Slope)	3018345.15	628545,03	245.45	98.5	4.8	121.5	P	Slope Lift 9 (STA 9+00, 50" N)

CT-40-123	25-Jun-02	AOC-40 (North Slope)	3018351.88	628593.68	242.27	96.7	5,3	119,2	Р	Slope Lift 6 (STA 8+50, 50' N)
CT-40-124	25-Jun-02	AOC-40 (North Slope)	3018345.15	628545,03	246,56	101.2	3.5	124.8	Р	Slope Lift 10 (STA 9+00, 50' N)
CT-40-125	25-Jun-02	AOC-40 (North Slope)	3018351.88	628593,68	243,23	99.4	3.3	122,6	P	Slope Lift 7 (STA 8+50, 50' N)
CT-40-126	25-Jun-02	AOC-40 (North Slope)	3018361.70	628644.91	236.45	90.5	5.0	103.9	Р	Slope Lift 1 (STA 8+00, 55' N)
CT-40-127	27-Jun-02	AOC-40 (North Slope)	3018361.70	628644.91	237.83	100.7	5.1	115.6	Р	Slope Lift 2 (STA 8+00, 55' N)
CT-40-128	27-Jun-02	AOC-40 (North Slope)	3018367.39	628687.86	237,43	100.2	4.8	115.6	Р	Slope Lift 2 (STA 7+60, 65' N)
CT-40-129	27-Jun-02	AOC-40 (North Slope)	3018356.53	628616.96	238.83	98.5	4.5	113,1	P	Slope Lift 3 (STA 8+25, 55' N)
CT-40-130	27-Jun-02	AOC-40 (North Slope)	3018362.73	628669.75	238.43	100.5	4.2	115.3	Р	Slope Lift 3 (STA 7+75, 55' N)
CT-40-131	27-Jun-02	AOC-40 (North Slope)	3018356,53	628616,96	239,83	103.9	4,8	119,3	P	Slope Lift 4 (STA 8+25, 55' N)
CT-40-132	27-Jun-02	AOC-40 (North Slope)	3018362.73	628669.75	239,43	92.6	4.2	106.3	Р	Slope Lift 4 (STA 7+75, 55' N)
CT-40-133	27-Jun-02	AOC-40 (North Slope)	3018351.88	628593,68	240,83	100.9	3,5	115,9	R.	Slope Lift 5 (STA 8+50, 55' N)
CT-40-134	27-Jun-02	AOC-40 (North Slope)	3018361.70	628644.91	240.43	97.8	4.7	112.3	Р	Slope Lift 5 (STA 8+00, 55' N)
CT-40-135	27-Jun-02	AOC-40 (North Slope)	3018344.12	628572,99	241,83	100.6	4.1	115,5	P	Slope Lift 6 (STA 8+75, 55' N)
CT-40-136	27-Jun-02	AOC-40 (North Slope)	3018356,53	628616,96	241,43	102.1	4,0	117.2	Р	Slope Lift 6 (STA 8+25, 55' N)
CT-40-137	27-Jun-02	AOC-40 (North Stope)	3018362.73	628669.75	241.83	94.6	7.4	108.6	P	Slope Lift 6 (STA 7+75, 55' N)
CT-40-138	1-Jul-02	AOC-40 (North Slope)	3018343,59	628570.32	247,56	96,3	3,8	118.8	Р	Slope Lift 11 (STA 9+25, 55' N)
CT-40-139	1-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	247,53	93.8	5.3	115.0	Р	Slope Lift 7 (STA 8+75, 55' N)
CT-40-140	1-Jul-02	AOC-40 (North Slope)	3018356.53	628616,96	247.51	90.7	7,0	111.9	Р	Slope Lift 7 (STA 8+25, 55' N)
CT-40-141	1-Jul-02	AOC-40 (North Slope)	3018345.15	628545.03	248.59	93.6	5.1	115.4	Р	Slope Lift 12 (STA 9+00, 55' N)
CT-40-142	1-Jul-02	AOC-40 (North Slope)	3018351.88	628593.68	248.63	94.2	5.1	116.2	Р	Slope Lift 8 (STA 8+50, 55' N)
CT-40-143	1-Jul-02	AOC-40 (North Slope)	3018361.70	628644.91	243.49	94.1	4.1	116.1	P	Slope Lift 8 (STA 8+00, 55' N)
CT-40-144	1-Jul-02	AOC-40 (North Slope)	3018345.15	628545.03	251.6	90.2	4.1	111,2	P	Slope Lift 13 (STA 9+00, 55' N)
CT-40-145	1-Jul-02	AOC-40 (North Slope)	3018351.88	628593,68	249,4	92.7	5.7	114.3	Р	Slope Lift 9 (STA 8+50, 55' N)
CT-40-146	1-Jul-02	AOC-40 (North Slope)	3018361.70	628644,91	249.53	90.1	4.2	111.1	P	Slope Lift 9 (STA 8+00, 55' N)
CT-40-147	1-Jul-02:	AOC-40 (North Slope)	3018343.59	628570.32	252.52	92.1	4.9	113.6	P	Slope Lift 14 (STA 9+25, 55' N)
CT-40-148	1-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	250.46	94.7	5.2	116.8	P	Slope Lift 10 (STA 8+75, 55' N)
CT-40-149	1-Jul-02	AOC-40 (North Slope)	3018356,53	628616.96	250,21	96,2	5,6	118.7	P	Slope Lift 10 (STA 8+25, 55' N)
CT-40-150	2-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	251.32	91.3	5.9	112.6	Р	Slope Lift 11 (STA 8+75, 55' N)
CT-40-151	2-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	251.41	93.0	4.4	114.7	Р	Slope Lift 11 (STA 8+25, 55' N)
CT-40-152	8-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	253.34	94.2	3.6	108.2	p	Slope Lift 15 (STA 11+75, 20N)
CT-40-153	8-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	253.4	96,3	4.3	110,5	p	Slope Lift 15 (STA 11+25, 20N)

CT-40-154	8-Jul-02	AOC-40 (North Stope)	3018314.99	628375.54	253.53	96.5	3.5	110.8	P	Slope Lift 15 (STA 10+75, 20N)
CT-40-155	B-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	253.52	96.7	3.5	111.0	P	Stope Lift 15 (STA 10+25, 20N)
CT-40-156	8-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	253,46	99.4	4.5	114.1	Р	Slope Lift 15 (STA 9+75, 20N)
CT-40-157	B-Jul-02	AOC-40 (North Slope)	3018343.59	628570,32	251,21	94.1	3,7	116.0	P	Slope Lift 15 (STA 9+25, 20N)
CT-40-158	8-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	252,32	92,6	4.3	(14.1	Р	Slope Lift 12 (STA 8+75, 20N)
CT-40-159	8-Jul-02	AOC-40 (North Slope)	3018356,53	628616,96	252.41	90,9	3.9	112.1	p.	Slope Lift 12 (STA 8+25, 20N)
CT-40-160	B-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	254.34	93.9	2.8	115.7	Р	Slope Lift 16 (STA 11+75, 20N)
CT-40-161	8-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	254.4	92.8	4.1	114.2	P	Slope Lift 16 (STA 11+25, 20N)
CT-40-162	8-Jul-02	AOC-40 (North Slope)	3018314.99	628375,54	254,53	94.8	4.0	116.9	P	Slope Lift 16 (STA 10+75, 20N)
CT-40-163	8-Jul-02	AOC-40 (North Slope)	3018318.67	628420,26	254,52	94.5	3,6	116,5	P	Slope Lift 16 (STA 10+25, 20N)
CT-40-164	8-Jul-02	AOC-40 (North Slope)	3018326,10	628469.28	254.46	92.3	3,7	113.8	Р	Slope Lift 16 (STA 9+75, 20N)
CT-40-165	8-Jul-02	AOC-40 (North Stope)	3018343.59	628570.32	254.21	97.3	3.4	120.0	р	Slope Lift 16 (STA 9+25, 20N)
CT-40-166	8-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	253,32	92.8	3.6	114.4	P	Slope Lift 13 (STA 8+75, 20N)
CT-40-167	8-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	253.41	90,5	4.5	111.5	p	Slope Lift 13 (STA 8+25, 20N)
CT-40-168	8-Jul-02	AOC-40 (North Slope)	3018293,23	628281.18	255.34	95.4	4.4	117.1	P	Slope Lift 17 (STA 11+75, 20N)
CT-40-169	8-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	255.4	94.3	4.1	116,3	P	Slope Lift 17 (STA 11+25, 20N)
CT-40-170	8-Jul-02	AOC-40 (North Slope)	3018314.99	628375.54	255.53	91.3	4.8	112.6	Р	Slope Lift 17 (STA 10+75, 20N)
CT-40-171	8-Jul-02	AOC-40 (North Slope)	3018318,67	628420,26	255,52	92.5	4.4	114.0	P	Slope Lift 17 (STA 10+25, 20N)
CT-40-172	8-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	255.46	93.3	3.2	115.8	Р	Slope Lift 17 (STA 9+75, 20N)
CT-40-173	8-Jul-02	AOC-40 (North Slope)	3018343.59	628570.32	255.21	91.3	4.4	112.6	Р	Slope Lift 17 (STA 9+25, 20N)
CT-40-174	8-Jul-02	AOC-40 (North Slope)	3018344.12	628572,99	254.32	92.8	3.8	114.5	þ	Slope Lift 14 (STA 8+75, 20N)
CT-40-175	8-Jul-02	AOC-40 (North Slope)	3018356,53	628616,96	254.41	96.9	4.1	119.5	Р	Slope Lift 14 (STA 8+25, 20N)
CT-40-176	9-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	255.21	97.5	2,7	129.6	Р	Slope Lift 15 (STA 8+25, 20N)
CT-40-177	9-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	255.48	93.9	3.2	115,8	Р	Slope Lift 15 (STA 8+75, 20N)
CT-40-178	9-Jul-02	AOC-40 (North Slope)	3018343.59	628570,32	255.44	92,3	3,4	113.8	Р	Slope Lift 18 (STA 9+25, 20N)
CT-40-179	9-Jul-02	AOC-40 (North Slope)	3018326 10	628469.28	255.84	92.1	4.7	113.5	р	Slope Lift 18 (STA 9+75, 20N)
CT-40-180	9-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	254.97	90.2	3.8	111.3	P	Slope Lift 18 (STA 10+25, 20N)
CT-40-181	9-Jul-02	AOC-40 (North Slope)	3018314.99	628375,54	256,16	91.8	3.8	113,2	Р	Slope Lift 18 (STA 10+75, 20N)
CT-40-182	9-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	254.3	91.9	3.6	113.3	P	Slope Lift 18 (STA 11+25, 20N)
CT-40-183	9-Jul-02	AOC-40 (North Slope)	3018293.23	628281_18	255.79	90.2	4.8	111.2	P	Slope Lift 18 (STA 11+75, 20N)
CT-40-184	9-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	256,97	94.6	5,3	116.7	P	Slope Lift 19 (STA 11+75, 20N)

CT-40-185	9-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	257.79	93.9	4.8	115,8	P	Slope Lift 19 (STA 11+25, 20N)
CT-40-186	9-Jul-02	AOC-40 (North Slope)	3018314,99	628375,54	257.3	93,9	4.9	115.7	Р	Slope Lift 19 (STA 10+75, 20N)
CT-40-187	9-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	257.15	91.4	4.5	112,7	Р	Slope Lift 19 (STA 10+25, 20N)
CT-40-188	9-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	257.13	91.2	4.6	112.5	Р	Slope Lift 19 (STA 9+75, 20N)
CT-40-189	9-Jul-02	AOC-40 (North Slope)	3018343.59	628570.32	256.65	91,4	4.5	112.7	P	Slope Lift 19 (STA 9+25, 20N)
CT-40-190	9-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	256.51	92.8	4.0	114.4	р	Slope Lift 16 (STA 8+75, 20N)
CT-40-191	9-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	256.39	93.7	4.2	115.6	Р	Slope Lift 16 (STA 8+25, 20N)
CT-40-192	10-Jul-02	AOC-40 (North Stope)	3018293.23	628281.18	258.16	91,3	7.9	112.5	Р	Slope Lift 20 (STA 11+75, 20N)
CT-40-193	10-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	258.38	96,5	6,6	119,0	þ.	Slope Lift 20 (STA 11+25, 20N)
CT-40-194	10-Jul-02	AOC-40 (North Slope)	3018314.99	628375.54	258.51	97.9	8.3	120.6	Р	Slope Lift 20 (STA 10+75, 20N)
CT-40-195	10-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	258.48	98.2	7.4	121,0	Р	Slope Lift 20 (STA 10+25, 20N)
CT-40-196	10-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	258.21	96,6	6.8	119.2	Р	Slope Lift 20 (STA 9+75, 20N)
CT-40-197	10-Jul-02	AOC-40 (North Slope)	3018343.59	628570.32	257.84	94.8	6.7	116,9	P	Slope Lift 20 (STA 9+25, 20N)
CT-40-198	10-Jul-02	AOC-40 (North Slope)	3018344,12	628572.99	257,59	96,2	6.7	118.6	P	Slape Lift 17 (STA 8+75, 20N)
CT-40-199	10-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	257.22	107.3	8.0	132.3	р	Slope Lift 17 (STA 8+25, 20N)
CT-40-200	10-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	258.22	98.0	8.9	120.8	Р	Slope Lift 18 (STA 8+25, 20N)
CT-40-201	10-Jul-02	AOC-40 (North Slope)	3018344.12	628572,99	258,59	96,6	6.9	119.0	P	Slope Lift 18 (STA 8+75, 20N)
CT-40-202	10-Jul-02	AOC-40 (North Slope)	3018343.59	628570.32	258.84	95.6	6.0	117.9	Р	Slope Lift 21 (STA 9+25, 20N)
CT-40-203	10-Jul-02	AOC-40 (North Slope)	3018326.10	628469,28	259.21	97.2	6.7	119.9	Р	Slope Lift 21 (STA 9+75, 20N)
CT-40-204	10-Jul-02	AOC-40 (North Slope)	3018318,67	628420,26	259.48	97.5	7.1	120.2	Р	Slope Lift 21 (STA 10+25, 20N)
CT-40-205	10-Jul-02	AOC-40 (North Slope)	3018314.99	628375,54	259.51	96,8	7.7	119.4	Р	Slope Lift 21 (STA 10+75, 20N)
CT-40-206	10-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	259.38	95.5	6.6	117.8	P	Slope Lift 21 (STA 11+25, 20N)
CT-40-207	10-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	259.16	95.1	6.1	117.3	P	Slope Lift 21 (STA 11+75, 20N)
CT-40-208	10-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	200,44	100.5	5.3	123.9	P	Slope Lift 22 (STA 11+75, 20N)
CT-40-209	10-Jul-02	AOC-40 (North Slope)	3018302,92	628343,17	260.6	99.7	7.3	122.9	P	Slope Lift 22 (STA 11+25, 20N)
CT-40-210	10-Jul-02	AOC-40 (North Slope)	3018314.99	628375.54	260.91	101.0	7.7	124.5	P	Slope Lift 22 (STA 10+75, 20N)
CT-40-211	10-Jul-02	AOC-40 (North Slope)	3018318.67	628420,26	260,58	103.3	5,7	127.4	Р	Slope Lift 22 (STA 10+25, 20N)
CT-40-212	10-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	260.5	99,5	7.6	122.7	Р	Slope Lift 22 (STA 9+75, 20N)
CT-40-213	10-Jul-02	AOC-40 (North Slope)	3018343.59	628570,32	260.12	96,6	7,2	119.1	Р	Slope Lift 22 (STA 9+25, 20N)
CT-40-214	10-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	259.80	95.3	8.7	117.5	Р	Slope Lift 19 (STA 8+75, 20N)
CT-40-215	10-Jul-02	AOC-40 (North Slope)	3018356.53	628616.96	259,53	98.8	6.6	121.9	Р	Slope Lift 19 (STA 8+25, 20N)

CT-40-216	11-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	261.38	101.0	6,5	124.4	Р	Slope Lift 23 (STA 11+75, 20N)
CT-40-217	11-Jul-02	AOC-40 (North Slope)	3018302,92	628343.17	261.86	99.3	6.7	122.4	Р	Slope Lift 23 (STA 11+25, 20N)
CT-40-218	11-Jul-02	AOC-40 (North Slope)	3018314.99	628375.54	261.87	99.8	5.2	123.1	P	Slope Lift 23 (STA 10+75, 20N)
CT-40-219	11-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	261.73	99.2	5.8	122.3	P	Slope Lift 23 (STA 10+25, 20N)
CT-40-220	11-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	261.77	98.0	6.3	120.8	Р	Slope Lift 23 (STA 9+75, 20N)
CT-40-221	11-Jul-02	AOC-40 (North Slope)	3018343.59	628570,32	261,42	100,6	7.0	123.9	Р	Slope Lift 23 (STA 9+25, 20N)
CT-40-222	11-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	260.8	96.9	7.8	119.5	Р	Slope Lift 20 (STA 8+75, 20N)
CT-40-223	11-Jul-02	AOC-40 (North Slope)	3018356,53	628616,96	260,62	98.7	6.1	121.6	Р	Slope Lift 20 (STA 8+25, 20N)
CT-40-224	11-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	262.6	97.0	4.6	119.5	Р	Slope Lift 24 (STA 11+75, 20N)
CT-40-225	11-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	262.98	96.9	7.8	119.4	Р	Slope Lift 24 (STA 11+25, 20N)
CT-40-226	11-Jul-02	AOC-40 (North Slope)	3018314.99	628375,54	263.12	98.6	7.5	121.5	P	Slope Lift 24 (STA 10+75, 20N)
CT-40-227	11-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	262.92	97.5	8.4	120.2	Р	Slope Lift 24 (STA 10+25, 20N)
CT-40-228	11-Jul-02	AOC-40 (North Slope)	3018326.10	628469.28	262.67	95.1	6.4	117,3	Р	Slope Lift 24 (STA 9+75, 20N)
CT-40-229	11-Jul-02	AOC-40 (North Slope)	3018343,59	628570,32	262.14	95.4	5.7	117.6	P	Slope Lift 24 (STA 9+25, 20N)
CT-40-230	11-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	261.76	97.8	6.2	120.6	Р	Slope Lift 21 (STA 8+75, 20N)
CT-40-231	11-Jul-02	AOC-40 (North Slope)	3018356,53	628616,96	260.62	95.2	6.4	117.4	Р	Slope Lift 21 (STA 8+25, 20N)
CT-40-232	11-Jul-02	AOC-40 (North Slope)	3018293.23	628281.18	263.53	99.0	5.1	122.2	Р	Slope Lift 25 (STA 11+75, 20N)
CT-40-233	11-Jul-02	AOC-40 (North Slope)	3018302,92	628343.17	263.88	96.4	5.4	118.8	Р	Slope Lift 25 (STA 11+25, 20N)
CT-40-234	11-Jul-02	AOC-40 (North Slope)	3018314.99	628375,54	264.14	95.0	4.6	117.1	P	Slope Lift 25 (STA 10+75, 20N)
CT-40-235	11-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	263.77	98,9	4.6	122.0	Р	Slope Lift 25 (STA 10+25, 20N)
CT-40-236	11-Jul-02	AOC-40 (North Slope)	3018326,10	628469,28	263.55	98.4	4.4	121.3	Р	Slope Lift 25 (STA 9+75, 20N)
CT-40-237	11-Jul-02	AOC-40 (North Slope)	3018343.59	628570.32	262.9	95.7	5.4	117.9	P	Stope Lift 25 (STA 9+25, 20N)
CT-40-238	11-Jul-02	AOC-40 (North Slope)	3018344.12	628572.99	262.36	95.1	4.7	117.3	Р	Slope Lift 22 (STA 8+75, 20N)
CT-40-239	15-Jul-02	AOC-40 (North Slope)	3018293,23	628281.18	264.59	96.4	4.9	118.8	Р	Slope Lift 25 (STA 11+75, 20N)
CT-40-240	15-Jul-02	AOC-40 (North Slope)	3018302.92	628343.17	265.15	97.6	5.8	120.3	Р	Slope Lift 25 (STA 11+25, 20N)
CT-40-241	15-Jul-02	AOC-40 (North Slope)	3018314,99	628375,54	264.35	96,5	5.0	119.0	P	Slope Lift 25 (STA 10+75, 20N)
CT-40-242	15-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	265.32	93.6	4.9	115,4	F	Slope Lift 25 (STA 10+25, 20N)
CT-40-243	15-Jul-02	AOC-40 (North Slope)	3018318.67	628420.26	265,45	96.7	4,7	119.1	P	Slope Lift 25 (STA 10+25, 20N)
CT-40-244	15-Jul-02	AOC-40 (North Slope)	3018259.46	628251.42	265.4	99.6	7.0	120,3	P	Slope Lift 27 (STA 12+00, 20N)
CT-40-245	15-Jul-02	AOC-40 (North Slope)	3018297.00	628305.71	265,35	102.0	6.4	125.7	Р	Slope Lift 27 (STA 11+50, 20N)
CT-40-246	15-Jul-02	AOC-40 (North Slope)	3018299.96	628349.37	265	98.6	6.0	121.5	P	Slope Lift 27 (STA 11+00, 20N)

CT-40-247	15-Jul-02	AOC-40 (North Slope)	3018306.42	628385.22	264.2	99.7	4.7	122,9	Р	Slope Lift 27 (STA 10+50, 20N)
CT-40-248	15-Jul-02	AOC-40 (North Slope)	3018351.88	628593.68	261.4	96.5	2.9	118.9	Р	Slope Lift 23 (STA 8+50, 20N)
CT-40-249	15-Jul-02	AOC-40 (North Slope)	3018361.70	628644.91	260.2	98.0	4.1	120.8	Р	Slope Lift 23 (STA 8+00, 20N)
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					1					
							L. L.			

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA

Various

Project #:

GTX-3544

Date:

6/4/02

Weather:

Sunny, 70 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan02		
Corrected Maximum Dry Density, pcf	114.8		
Corrected Optimum Moisture Content, %	11.5		

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	South Bank	5.2	109.7	95.6	Konan02	Lift 1
2	South Bank	4.9	105.6	92.0	Konan02	Lift 2
3	South Bank	5.1	110 8	96.5	Konan02	Lift 3
		0				
		1				
			Y-			
		0				

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Mike Driscoll

On-Site:

9:00 AM

Mileage:

24 miles 0.5 hours

Off-Site:

3:15 PM

Travel Time.

.

GeoTesting Express, Inc. Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

Field Density Test Report

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location:

Devens, MA

Testing Location:

Project #:

GTX-3544

Date:

6/5/02

Weather:

Cloudy, 70 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan02		
Corrected Maximum Dry Density, pcf	114.8		
Corrected Optimum Moisture Content, %	11.5		

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	10 + 50	6.0	104.7	91.2	Konan02	Lift 1
2	11 + 00	6.3	108.1	94.2	Konan02	Lift 4
3	11 + 00 Floor	4.7	111.5	97.1	Konan02	Lift 1
4	11 + 50 Floor	3.8	112.1	97.6	Konan02	Lift 1
5	10 + 40	6.9	105.3	91.7	Konan02	Lift 2
6	10 + 40	5.0	117.5	102.4	Konan02	Lift 3
7	11 + 00	6.6	105.4	91.8	Konan02	Lift 5
8	11 + 00	6.2	107.8	93.9	Konan02	Lift 5
9	11 + 00	5.4	106.5	92.8	Konan02	Lift 5
10	11 + 20	6.0	109.9	95.7	Konan02	Lift 4
11	10 + 75	6.1	103.9	90.5	Konan02	Lift 4
	P					

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Mike Driscoll

On-Site:

12:00 PM

Mileage:

24 miles

Off-Site:

4:00 PM

Travel Time:

0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location:

Devens, MA

Testing Location:

Project #:

GTX-3544

Date:

6/6/02

Weather:

Rain, 60 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID			
Corrected Maximum Dry Density, pcf			
Corrected Optimum Moisture Content, %	(4.50)		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample	Comments
		NC NC	TESTS			
			712010		a call	
		1				

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Mike Driscoll

On-Site:

11:45 AM

Mileage:

24 miles

Off-Site:

2:15 PM

Travel Time.

0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date:

6/10/02

Weather:

Sunny, 70 °F

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01	
Corrected Maximum Dry Density, pcf	132.9	
Corrected Optimum Moisture Content, %	7.1	

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11+75 - 50N	4,3	119.7	90 1	Konan01	Roadway - Lift 1
2	11+50 - 50N	4.6	122.1	91.9	Konan01	Roadway - Lift 1
3	11+25 - 50N	4.6	125.8	94.7	Konan01	Roadway - Lift 1
4	11+00 - 50N	4.4	131.9	99.2	Konan01	Roadway - Lift 1
5	10+75 - 50N	4.7	130.5	98.2	Konan01	Roadway - Lift 1
6	10+50 - 50N	3.9	124.3	93.5	Konan01	Roadway - Lift 1
7	10+25 - 50N	5.3	127.1	95.6	Konan01	Roadway - Lift 1
8	11+50 - 50N	4.8	126.6	95.3	Konan01	Roadway - Lift 2
9	11+25 - 50N	6.2	123.4	92,9	Konan01	Roadway - Lift 2
10	11+00 - 50N	6.8	124.9	94.0	Konan01	Roadway - Lift 2
11	10+75 - 50N	6,1	129.9	97.7	Konan01	Roadway - Lift 2
12	10+50 - 50N	6.5	129.9	97.7	Konan01	Roadway - Lift 2
13	10+25 - 50N	6.3	126.6	95.3	Konan01	Roadway - Lift 2
14	11+75 - 50N	5.4	125.6	94.5	Konan01	Roadway - Lift 2
15	11+50 - 50N	5.9	126.7	95.3	Konan01	Roadway - Lift 3

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

f-

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location:

Devens, MA

Testing Location:

Various

Project #:

GTX-3544

Date:

6/10/02

Weather:

Sunny, 70 °F

Page:

2 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01			
Corrected Maximum Dry Density, pcf	132,9			
Corrected Optimum Moisture Content, %	7.1			

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
16	11+25 - 50N	5,2	126.9	95.5	Konan01	Roadway - Lift 3
17	11+00 - 50N	5,2	129.8	97.7	Konan01	Roadway - Lift 3
18	10+75 - 50N	5.4	123.2	92.7	Konan01	Roadway - Lift 3
19	10+50 - 50N	5.5	125.3	94.3	Konan01	Roadway - Lift 3
20	10+25 - 50N	4.7	121.4	91.3	Konan01	Roadway - Lift 3

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

7:30 AM

 $\Delta N \Lambda$

Mileage:

24 miles

Off-Site:

4:30 PM

Travel Time:

0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date:

6/11/02

Weather:

Cloudy, 70 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01		
Corrected Maximum Dry Density, pcf	132.9		
Corrected Optimum Moisture Content, %	7.1		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11+75 - 50N	4.6	126.5	95.2	Konan01	Roadway - Lift 3
2	11+50 - 50N	5.2	132.3	99.5	Konan01	Roadway - Lift 4 - SC-1
3	11+25 - 50N	5.5	130,6	98.3	Konan01	Roadway - Lift 4
4	11+00 - 50N	5.7	125.1	94.1	Konan01	Roadway - Lift 4
5	10+75 - 50N	6.0	125.6	94.5	Konan01	Roadway - Lift 4
6	10+50 - 50N	5.1	124.7	93.8	Konan01	Roadway - Lift 4
7	10+25 - 50N	6.2	126.7	95.3	Konan01	Roadway - Lift 4
8	10+00 - 50N	6.5	124.9	94.0	Konan01	Roadway - Lift 4
9	10+75 - 50N	6.1	126.6	95.3	Konan01	Roadway - Lift 5
10	10+50 - 50N	6.2	123.9	93.2	Konan01	Roadway - Lift 5 - SC-2
11	10+25 - 50N	5.4	125.7	94.6	Konan01	Roadway - Lift 5
		1				
	0					

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

8:00 AM

Mileage:

24 miles

Off-Site:

3:00 PM

Travel Time:

0.5 hours

1

Client:

Stone & Webster

Project Name:

Devens Landfill Devens, MA

Project Location: Testing Location:

Various

Project #:

GTX-3544

Date:

Page:

6/12/02

Weather:

Cloudy, 60 °F 1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01		
Corrected Maximum Dry Density, pcf	132.9		/
Corrected Optimum Moisture Content, %	7.1		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	10+00 - 70N	5.0	124,0	93.3	Konan01	Roadway - Lift 1
			*			
		- i				
				1		1-
		1				
		(I and the second second
					4	

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

7:30 AM

Mileage:

24 miles

Off-Site:

2:30 PM

Travel Time:

0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: **Testing Location:**

Devens, MA Various

Project #:

GTX-3544

Date:

6/13/02

Weather:

Cloudy, 60 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01	Fe1		
Corrected Maximum Dry Density, pcf	132.9	133.2		
Corrected Optimum Moisture Content, %	7.1	6.6		

Field Compaction Test Results

Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
9+90 - 175N	6.7	125.9	94.5	F-1	North Slope
9+00 - 200N	4.1	125.2	94.2	Konan01	North Slope
	!				
			-		
	1				
	9+90 - 175N	Test Location Content, % 9+90 - 175N 6.7	Test Location Content, % Density, pcf 9+90 - 175N 6.7 125.9	Test Location Content, % Density, pcf Compaction, % 9+90 - 175N 6.7 125.9 94.5 9+00 - 200N 4.1 125.2 94.2	Test Location Content, % Density, pcf Compaction, % ID 9+90 - 175N 6.7 125.9 94.5 F-1 9+00 - 200N 4.1 125.2 94.2 Konan01

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

12:45 AM

Mileage:

24 miles

Off-Site:

3:45 PM

Travel Time:

0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA

Various

Project #:

GTX-3544

Date:

6/17/02

Weather:

Cloudy, 70 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01		
Corrected Maximum Dry Density, pcf	132.9		
Corrected Optimum Moisture Content, %	7.1		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	10+10 - 70N	6.7	131.1	98.6	Konan01	Roadway - Lift 1
2	9+85 - 70N	6,5	123.7	93,1	Konan01	Roadway - Lift 1
3	9+60 - 70N	4.5	119.4	89.9	Konan01	Roadway - Lift 1 - Pass
4	9+35 - 70N	4.5	120.7	90.8	Konan01	Roadway - Lift 1
5	10+10 - 70N	6.3	121.3	91.3	Konan01	Roadway - Lift 2
6	9+85 - 70N	7.2	123.2	92.7	Konan01	Roadway - Lift 2
7	9+60 - 70N	6.3	124.1	93.4	Konan01	Roadway - Lift 2
8	9+35 - 70N	6.9	123.4	92.9	Konan01	Roadway - Lift 2
		1				
					4	

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

10:00 AM

Mileage:

24 miles

Off-Site:

4:30 PM

Travel Time:

0.5 hours

1

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date:

6/18/02

Weather:

Cloudy, 70 °F

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01	
Corrected Maximum Dry Density, pcf	132.9	
Corrected Optimum Moisture Content, %	7.1	

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11+75 - 70N	5.7	123.3	92.8	Konan01	Roadway - Lift 1
2	10+10 - 70N	5.2	123.4	92.9	Konan01	Roadway - Lift 3
3	9+85 - 70N	4.6	118.6	89.2 ,	Konan01	Roadway - Lift 3
3:1	9+85 - 70N	6.2	120.2	90.4	Konan01	Retest
4	9+60 - 70N	5.8	122.9	92.5	" Konan01	Roadway - Lift 3
5	9+35 - 70N	6.1	121.5	91.4	Konan01	Roadway - Lift 3
6	9+10 - 70N	5.9	124.5	93.7	Konan01	Roadway - Lift 2
7	10+10 - 70N	7.0	120.2	90.4	Konan01	Roadway - Lift 4
8	9+85 - 70N	6.4	122.3	92.0	Konan01	Roadway - Lift 4
9	9+60 - 70N	6.3	124.4	93.6	Konan01	Roadway - Lift 4
10	9+35 - 70N	6.3	121.0	91.0	Konan01	Roadway - Lift 4
11	9+10 - 70N	6.0	120.7	90.8	Konan01	Roadway - Lift 3
12	9+35 - 70N	4.6	120.2	90.4	Konan01	Roadway - Lift 5
13	9+60 - 70N	3.4	125.4	94.4	Konan01	Roadway - Lift 5
14	9+85 - 70N	5.2	120.4	90.6	Konan01	Roadway - Lift 5

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)			
Equipment ID	Troxler 3440	Sand Cone C			

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date: Weather: 6/18/02 Cloudy, 70 °F

Page:

2 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01		
Corrected Maximum Dry Density, pcf	132.9		
Corrected Optimum Moisture Content, %	7.1		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
15	10+10 - 70N	5.4	126.5	95.2	Konan01	Roadway - Lift 5
16	10+10 - 70N	5.3	123.7	93.1	Konan01	Roadway - Lift 6
17	9+85 - 70N	7.6	120.8	90.9	Konan01	Roadway - Lift 6
18	9+60 - 70N	4.6	123.6	93.0	Konan01	Roadway - Lift 6
19	9+35 - 70N	4.6	120.7	90.8	Konan01	Roadway - Lift 6

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)		
Equipment ID	Troxler 3440	Sand Cone C		

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

7:30 AM

Mileage:

24 miles

Off-Site:

4:30 PM

Travel Time:

0.5 hours

GeoTesting Express, Inc. Boxborough, MA . (978) 635-0424 · Fax (978) 635-0266

Field Density Test Report

Client:

Stone & Webster

Project Name:

Devens Landfill Devens, MA

Project Location: Testing Location:

Various

Project #:

GTX-3544

Date:

6/19/02

Weather:

Cloudy, 70 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01			
Corrected Maximum Dry Density, pcf	132.9			
Corrected Optimum Moisture Content, %	7.1			

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	10+10-70N	5.7	120.9	91.0	Konan01	Roadway-Lift7
2	9+85-70N	6.1	122.2	91.9	Konan01	Roadway Lift7
3	9+60-70N	5.8	120.3	90.5 .	Konan01	Roadway-Lift7
4	9+35-70N	5.5	119.7	90.1	Konan01	Roadway-Lift7
5	10+10-60N	6.5	121.7	91.6	Konan01	Roadway-Lift8
6	9+85-60N	6,9	120.3	90,5	Konan01	Roadway-Lift8
7	9+60-60N	5.2	123.6	93,0	Konan01	Roadway-LIFT8
8	9+35-60N	4.8	129.3	97.3	Konan01	Roadway-Lift8
9	10+10-60N	6.9	121.0	91.0	Konan01	Roadway-Lift9
10	9+85-60N	7.0	121.4	91.3	Konan01	Roadway-Lift9
11	9+60-60N	6.2	120.4	90.6	Konan01	Roadway-Lift9
12	9+35-60N	5.8	121.6	91,5	Konan01	Roadway-Lift9
	W					
				D		

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

7:30 AM

Mileage:

24 miles

Off-Site: 4:00 PM

Travel Time:

0.5 hours

Associate with the name of the second

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date:

6\20\02

Weather:

Sunny, 80 °F

Page:

: 1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	Konan01	
Corrected Maximum Dry Density, pcf	123.3	132.9	
Corrected Optimum Moisture Content, %	8.6	7.1	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction %	Reference Sample	Comments
1	10+10-50N	5 6	123.6	93.0	Konan01	Roadway-Lift10
2	9+85-50N	6.7	121.2	91.2	Konan01	Roadway-Lift10
3	9+60-50N	7.5	124.3	93.5	Konan01	Roadway-Lift10
4	9+35-50N	6.4	121.8	91.7	Konan01	Roadway-Lift10
5	9+10-50N	6.4	122.5	92.2	Konan01	Roadway-Lift4
6	8+85-50N	5.8	124,2	93.5	Konan01	Roadway-Lift1
7	10+10-50N	5.5	118.3	89.0	Konan01	Roadway-Lift11
8	9+85-50N	4,8	1 (8,3	96.9	Konan05	Roadway-Lift11
9	9+60-50N	6.1	120.0	97.3	Konan05	Roadway-Lift11
10	9+35-50N	5.0	119.9	97.2	Konan05	Roadway-Lift11
11	9+10-50N	77	120.5	97.7	Konan05	Roadway-Lift5
12	8+85-50N	6.1	120.4	97.6	Копал05	Roadway-Lift2
13	8+60-50N	7,0	123.1	99.8	Konan05	Roadway-Lift1
14	8+60-50N	6.6	122.7	99.5	Konan05	Roadway-lift2
15	10+25-50N	4.9	121.0	98.2	Konan05	Roadway-Lift12

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date:

6\20\02

Weather:

Sunny, 80 °F

Page:

2 of2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	
Corrected Maximum Dry Density, pcf	123 3	
Corrected Optimum Moisture Content, %	8.6	

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
16	10+00-50N	4.6	117.7	95.5	Konan05	Roadway-Lift12
17	9+75-50N	4.9	117.6	95.4	Konan05	Roadway-Lift12
18	9+50-50N	4.4	118.8	96.4	Konan05	Roadway-Lift12
19	9+25-50N	4.8	121.7	98.7	Konan05	Roadway-Lift6
20	9+00-50N	5.4	120.4	97.6	Konan05	Roadway-Lift3
21	8+75-50N	5.4	120.4	97.6	Konan05	Roadway-Lift3
		†				
					10.	

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

7:30 AM 4:00 PM Mileage: Travel Time: 24 miles 0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location:

Various

Devens, MA

Project #:

GTX-3544

Date: Weather: 6\24\02 Sunny, 80 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	
Corrected Maximum Dry Density, pcf	123.3	
Corrected Optimum Moisture Content, %	8.6	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	10+25-50N	3.6	121.1	98.2	Konan05	Roadway-Lift13
2	10+00-50N	5.4	125,9	102.1	Konan05	Roadway- Lift13
3	9+75-50N	4.9	121.8	98.8	Konan05	Roadway-Lift13
4	9+50-50N	4.3	122.2	99.1	Konan05	Roadway-Lift13
5	9+25-50N	4.7	117.5	95.3	Konan05	Roadway-Lift7
6	9+00-55N	3.4	118.9	96 4	Konan05	Roadway-Lift4
7	8+75-55N	3.7	123,4	100 1	Konan05	Roadway-Lift4
8	10+50-50N	5.4	119.2	96.7	Konan05	Roadway-Lift14
9	10+00-50N	6 1	121.2	98.3	Konan05	Roadway-Lift14
10	9+50-50N	5.3	123.4	100.1	Konan05	Roadway-Lift14
11	9+00-50N	5.9	122.8	99.6	Konan05	Roadway-Lift8
12	8+50-55N	4 1	126.2	102.4	Копап05	Roadway-Lift5

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On Site

7.30 AM

Mileage:

24 miles

Off-Site.

4.00 PM

Travel Time:

Client:

Stone & Webster

Project Name:

Devens Landfill Devens, MA

Project Location: Testing Location:

Various

Project #:

GTX-3544

Date:

6/25/02

Weather:

Sunny, 80 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	Konan02	
Corrected Maximum Dry Density, pcf	123.3	114.8	
Corrected Optimum Moisture Content, %	8.6	11.5	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	9+00-55N	4,8	121,5	98.5	Konan05	Roadway- Lift9
2	8+50-55N	5.3	119.2	96.7	Konan05	Roadway- Lift6
3	9+00-55N	3.5	124.8	101.2	Konan05	Roadway- Lift10
4	8+50-55N	3.3	122.6	99.4	Konan05	Roadway-Lift7
5	8+00-55N	5.0	103.9	90.5	Konan02	Roadway-Lift1
						7

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)		
Equipment ID	Troxler 3440	Sand Cone C		

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor;

Mr. Larry Pierce

On-Site:

7;30 AM

Mileage:

24 miles 0.5 hours

Off-Site:

4;00AM

Travel Time:

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Roadway Project #:

GTX-3544

Date:

6/27/02

Weather:

Parity Cloudy, 90 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan02	
Corrected Maximum Dry Density, pcf	114.8	
Corrected Optimum Moisture Content, %	11.5	

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	8+00 - 55N	5.1	115.6	100 7	Konan02	Roadway - Lift 2
2	7+60 - 55N	4.8	115.1	100 3	Konan02	Roadway - Lift 2
3	8+25 - 55N	4.5	113.1	98.5	Konan02	Roadway - Lift 3
4	7+75 - 55N	4.2	115.3	100.4	Konan02	Roadway - Lift 3
5	8+25 - 55N	4.8	119.3	103.9	Konan02	Roadway - Lift 4
6	7+75 - 55N	4.2	106.3	92 6	Konan02	Roadway - Lift 4
7	8+50 - 55N	3.5	115.9	101.0	Konan02	Roadway - Lift 5
8	8+00 - 55N	4.7	112.3	97.8	Konan02	Roadway - Lift 5
9	8+75 - 55N	4.1	115.5	100.6	Konan02	Roadway - Lift 6
10	8+25 - 55N	4.0	117.2	102.1	Konan02	Roadway - Lift 6
11	7+75 - 55N	7.4	108 6	94.6	Konan02	Roadway - Lift 6
	ų.					

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	35

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Craig Paradis

On Site

8:00 AM

Mileage

24 miles

Off-Site:

3.45 PM

Travel Time:

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location:

Devens, MA

Testing Location:

Various

Project #:

GTX-3544

Date:

7/1/02

Weather:

Sunny, 80 F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05			
Corrected Maximum Dry Density, pcf	123.3			
Corrected Optimum Moisture Content, %	8.6			

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	9+25-55N	3.8	118.8	96.3	Konan05	Roadway Lift11
2	8+75-55N	5.3	115.6	93.8	Konan05	Roadway Lift7
3	8+25-55N	6.7	111.9	90.8	Konan05	Road Lift 7
4	9+00-55N	5.1	115.4	93.6	Konan05	Roadway Lift12
5	8+50-55N	5.1	116.2	94.2	Konan05	Roadway Lift8
6	8+00-55N	4.1	116.1	94.2	Konan05	Roadway Lift B
7	9+00-50N	4.1	111.2	90.2	Konan05	Roadway Lift13
8	8+50-50N	5.7	114.3	92.7	Konan05	Roadway Lift9
9	8+00-50N	4.2	111,1	90.1	Konan05	Roadway Lift9
10	9+25-50N	4.9	113.6	92.1	Konan05	Roadway-Lift14
11	8+75-50N	5.2	116.8	94.7	Konan05	Roadway Lift10
12	8+25-50N	5.6	118.7	96.3	Konan05	Roadway Lift10

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)		
Equipment ID	Troxler 3440	Sand Cone C		

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site.

7.30 AM

Mileage:

24 miles

Off-Site:

4:00 PM

Travel Time:

GeoTesting Express, Inc. Boxborough, MA (978) 635-0424 • Fax (978) 635-0266

Field Density Test Report

Client:

Stone & Webster

Project Name:

Devens Landfill

Devens, MA

Project Location: Testing Location:

Various

Project #:

GTX-3544

Date:

7/2/02

Weather:

Cloudy, 80 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	
Corrected Maximum Dry Density, pcf	123.3	
Corrected Optimum Moisture Content, %	8.6	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	8+75-50N	5.9	112.6	91.3	Konan05	Roadway Lift 11
2	8+25-50N	4.4	114.7	93.0	Konan05	Roadway Lift 11
			Salt Control Control			· ·
						100 June 100
						1-10-7

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

8:00 AM

Mileage

24 miles 0.5 hours

Off-Site:

11:00 AM

Travel Time

Client:

Stone & Webster

Project Name:

Devens Landfill Devens, MA

Project Location: Testing Location:

Various

Project #:

GTX-3544

Date:

7/8/02

Weather:

Sunny, 80 °F

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	Konan02	
Corrected Maximum Dry Density, pcf	123.3	114.8	_11
Corrected Optimum Moisture Content, %	8.6	11.5	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11+75-50N	3.6	108.2	94.3	Konan02	Roadway-Lift15
2	11+25-50N	4.3	110.5	96.3	Konan02	Roadway-Lift15
3	10+75-50N	3.5	110.8	96.5	Konan02	Roadfway-Lift15
4	10+25-50N	3.5	111.0	96.7	Konan02	Roadway-Lift15
5	9+75-50N	4.5	114.1	99.4	Konan02	Roadway-Lift15
6	9+25-50N	3.7	116.0	94.1	Konan05	Roadway-Lift15
7	8+75-50N	4.3	114.1	92.5	Konan05	Roadway-Lift12
8	8+25-50N	3.9	112.1	90.9	Konan05	Roadway-Lift12
9	11+75-50N	2.8	115.7	93.8	Konan05	Roadway-Lift16
10	11+25-50N	4.1	114.2	92.6	Konan05	Roadway-Lift16
11	10+75-50N	4.0	116.9	94.8	Konan05	RoadwayLift16
12	10+25-50N	3.6	116.5	94.5	Konan05	RoadwayLift16
13	9+75-50N	3.7	113.8	92.3	Konan05	Roadway-Lift16
14	9+25-50N	3,4	120.0	97.3	Konan05	Roadway-Lift16
15	8+75-50N	3.8	114.4	92.8	Konan05	Roadway-Lift13

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location:

Devens, MA

Testing Location:

Various

Project #:

GTX-3544

Date:

7/8/02

Weather:

Sunny, 80 °F

Page:

2 of2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	
Corrected Maximum Dry Density, pcf	123.3	
Corrected Optimum Moisture Content, %	8.6	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
16	8+25-50N	4.5	111.5	90.4	Konan05	Roadway-Lift13
17	11+75-50N	4.4	117.7	95.5	Konan05	Roadway-Lift17
18	11+25-50N	4.1	116 3	94.3	Konan05	Roadway-Lift17
19	10+75-50N	4.8	112.6	91,3	Konan05	Roadway-Lift17
20	10+25-50N	4.4	114.0	92 5	Konan05	Roadway-Lift17
21	9+75-50N	3.2	115.8	93.9	Konan05	Roadway-Lift17
22	9+25-50N	4.4	112.6	91.3	Konan05	Roadway-Lift17
23	8+75-50N	3.8	114.5	92.8	Konan05	Roadway-Lift13
24	8+25-50N	4.1	119.5	96,9	Konan05	Roadway-Lift13

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3440	Sand Cone C

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

7:30 AM

Mileage.

24 miles

Off-Site:

3;00PM

M

Travel Time 0.5 hours

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: Testing Location: Devens, MA Various Project #:

GTX-3544

Date:

7/9/02

Weather:

Partly Cloudy, 80 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan01	Konan05		
Corrected Maximum Dry Density, pcf	132,9	123.3		
Corrected Optimum Moisture Content, %	7.1	8.6		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	8 + 25 - 50N	2.7	129.6	97.5	Konan01	Roadway-Lift15
2	8 + 75 - 50N	3.2	115.8	93,9	Konan05	Roadway-Lift15
3	9 + 25 - 50N	3.4	113.8	92.3	Konan05	Roadfway-Lift18
4	9 + 75 - 50N	4.7	113.5	96.7	Konan05	Roadfway-Lift18
5	10 + 25 - 50N	3.8	111.3	90.3	Konan05	Roadfway-Lift18
6	10 + 75 ~ 50N	3.8	113.2	94.1	Konan05	Roadfway-Lift18
7	11 + 25 - 50N	3.6	113.3	91.9	Konan05	Roadfway-Lift18
8	11 + 75 - 50N	4.8	111.2	90.2	Konan05	Roadfway-Lift18
9	11 + 75 - 40N	5,3	116.7	94.6	Konan05	Roadway-Lift 19
10	11 + 25 - 40N	4.8	115.8	93.9	Konan05	Roadway-Lift 19
11	10 + 75 - 40N	4.9	115.7	93.8	Konan05	Roadway-Lift 19
12	10 +25 - 40N	4.5	112.7	91,4	Konan05	Roadway-Lift 19
13	9 + 75 - 40N	4.6	112.5	92.3	Konan05	Roadway-Lift 19
14	9 + 25 - 40N	4.5	112.7	92.3	Konan05	Roadway-Lift 19
15	8 + 75 - 40N	4.6	114.4	97.3	Konan05	Roadway-Lift16
16	8 + 25 -40N	4.2	115.6	92.8	Konan05	Roadway-Lift16

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)	
Equipment ID	Troxler 3440	Sand Cone C	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Larry Pierce

On-Site:

8:00 AM

Mileage:

24 miles

Off-Site:

12;00 PM

Travel Time.

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location:

Devens, MA

Testing Location:

Various

Project #:

GTX-3544

Date:

7/10/02

Weather:

Partly Cloudy, 80 °F

Page:

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05		
Corrected Maximum Dry Density, pcf	123.3		
Corrected Optimum Moisture Content, %	8.6		

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	e Comments
1	11 + 75	7.9	112.5	91.2	Konan05	Roadway-Lift 20
2	11 + 25	6.6	119.0	96.5	Konan05	Roadway-Lift 20
З	10 + 75	8.3	120.6	97.8	Konan05	Roadway-Lift 20
4	10 + 25	7.4	121.0	96.7	Konan05	Roadway-Lift 20
5	9 + 75	6,8	119.2	96.7	Konan05	Roadway-Lift 20
6	9 + 25	6.7	116.9	94.1	Konan05	Roadway-Lift 20
7	8 + 75	6.7	118.6	96.2	Konan05	Roadfway-Lift 17
8	8 + 25	8.0	132.3	107.3	Konan05	Roadfway-Lift 17
					-	
				× .		
		The state of the s				

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3411	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Mike Drsicoll

On-Site:

10:30 AM

Mileage:

24 miles

Off-Site:

5:00 PM

Travel Time:

GeoTesting Express, Inc. Boxborough, MA . (978) 635-0424 • Fax (978) 635-0266

Field Density Test Report

Client:

Stone & Webster

Project #: Date: GTX-3544 7/11/02

Project Name:

Devens Landfill Devens, MA

Weather:

Partly Cloudy, 70 °F

Project Location: Testing Location:

Various

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05		
Corrected Maximum Dry Density, pcf	123.3	- 3;	
Corrected Optimum Moisture Content, %	8.6		

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11 + 75	6.5	124.4	100,9	Konan05	Roadway-Lift 23
2	11 + 25	6.7	122.4	99.3	Konan05	Roadway-Lift 23
3	10 + 75	5.2	123.1	99.8 ,	Konan05	Roadway-Lift 23
4	10 + 25	5.8	122.3	96.7	Konan05	Roadway-Lift 23
5	9 + 75	6.3	120.8	98.0	Konan05	Roadway-Lift 23
6	9 + 25	7.0	123,9	94.1	Konan05	Roadway-Lift 23
7	8 + 75	7.8	119,5	96.9	Konan05	Roadway-Lift 20
8	8 + 25	6.1	121.6	98.6	Konan05	Roadway-Lift 20
9	11 + 75	4.6	119.5	96.9	Konan05	Roadway-Lift 24
10	11 + 25	7.8	119.4	96.8	Konan05	Roadway-Lift 24
11	10 + 75	7.5	121.5	98.5	Konan05	Roadway-Lift 24
12	10 + 25	8.4	120.2	97.5	Konan05	Roadway-Lift 24
13	9 + 75	6.4	117.3	95.1	Konan05	Roadway-Lift 24
14	9 + 25	5.7	117.6	95.4	Konan05	Roadway-Lift 24
15	8 + 75	6.2	120.6	97.8	Konan05	Roadway-Lift 21

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3411	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Mike Drsicoll

Client:

Stone & Webster

Project #:

GTX-3544

Project Name:

Devens Landfill

Devens, MA

Project Location: Testing Location:

Various

Date:

7/11/02

Weather:

Partly Cloudy, 70 °F

Page:

1 of 2

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	
Corrected Maximum Dry Density, pcf	123.3	
Corrected Optimum Moisture Content, %	8.6	

Field Compaction Test Results

Test#	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
16	8 + 25	6.4	117.4	95.2	Konan05	Roadway-Lift 21
17	11 + 75	5.1	122.2	99.1	Konan05	Roadway-Lift 25
18	11 + 25	5.4	118.8	96.4	Konan05	Roadway-Lift 25
19	10 + 75	4.6	117,1	96.7	Konan05	Roadway-Lift 25
20	10 + 25	4.6	122.0	98.9	Konan05	Roadway-Lift 25
21	9 + 75	4.4	121.3	94.1	Konan05	Roadway-Lift 25
22	9 + 25	5.4	117.9	95.6	Konan05	Roadway-Lift 25
23	8 + 75	4.7	117.3	95.1	Konan05	Roadway-Lift 22

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Troxler 3411	1444

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Mike Drsicoll

On-Site:

8:00 AM

Mileage:

24 miles 0.5 hours

Off-Site:

4:45 PM

Travel Time:

Client:

Stone & Webster

Project Name:

Devens Landfill

Project Location: **Testing Location:** Devens, MA

Project #: GTX-3544 7/15/02

Date:

Weather:

Page:

Sunny, 80 °F

1 of 1

Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	Konan05	
Corrected Maximum Dry Density, pcf	123.3	
Corrected Optimum Moisture Content, %	8.6	

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11+75 - 50N	4.9	118.8	96,3	Konan05	Roadway Lift 26
2	11+25 - 50N	5.8	120.3	97.6	Konan05	Roadway Lift 26
3	10+75 - 50N	5.0	119.0	96.5	Konan05	Roadway Lift 26
4	10+25 - 50N	4.9	115.4	93.6	Konan05	Roadway Lift 26
4a	10+25 - 50N	4.7	119.1	96.6	Konan05	retest
5	12+00 - 50N	7.0	120.3	97.6	Konan05	Roadway Lift 27
6	11+50 - 50N	6.4	125.7	101.9	Konan05	Roadway Lift 27
7	11+00 - 50N	6.0	121.5	98.5	Konan05	Roadway Lift 27
8	10+50 - 50N	4.7	122.9	99.7	Konan05	Roadway Lift 27
9	8+50 - 50N	2.9	118.9	96.4	Konan05	Roadway-Lift 23
10	8+00 - 50N	4.1	120.8	98.0	Konan05	Roadway-Lift 23

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)		
Equipment ID	Troxler 3440	Sand Cone C		

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Craig Paradis

On-Site:

8:45 AM

Mileage:

24 miles

Off-Site:

3:00 PM

Travel Time:

Client:

Stone & Webster

Project Name:

Devens Landfill

GTX #:

3544

Location: Devens, MA

Reference Laboratory Compaction Characteristics

Sample ID	Konan01	Konan02	Konan05	
Maximum Dry Density, lb/ft ³	132.9	114.8	123.3	
Optimum Moisture Content, %				

In-place Sand Cone Test Data

Test#	SC-1	SC-2	SC-3	SC-4	SC-5	SC-6	
Date	06/11/02	06/11/02	06/18/02	06/20/02	07/02/02	07/08/02	
Test Hole Volume, ft ³	0.0294	0.0260	0.0279	0.0304	0.0253	0.0238	
Wet Density, Ib/ft ³	129.5	141.7	129.8	117,4	120.4	111.4	
Dry Density, lb/ft ³	120.8	131.1	120.0	110.9	111.0	105.7	
Water Content, %	7.2	8.0	8.2	5.8	8.5	5.4	
Reference Sample ID	Konan01	Konan01	Konan01	Konan05	Konan05	Konan02	
Compaction, %	91	99	90	90	90	92	

Test Locations / Comments

SC1 S	See Nuclear Gauge Density Report	NI P
	recording Dunge Density Meport	Nuclear gauge test # 2
SC2 S	See Nuclear Gauge Density Report	Nuclear gauge test # 10
SC3 S	See Nuclear Gauge Density Report	Nuclear gauge test # 16
SC4 S	See Nuclear Gauge Density Report	Nuclear gauge test # 15
SC5 S	See Nuclear Gauge Density Report	Nuclear gauge test #
SC6 S	See Nuclear Gauge Density Report	Nuclear gauge test # 1

Sand Cone ID: SC-C

Bulk Density of Sand, lb/ft3: 95.06

Mass of Sand to Fill Cone & Base Plate, lb: 1759

Proctor Method: ASTM D 1557

Moisture Content Method: ASTM D 2216

Field Monitor

Client:

Stone & Webster

Project Name:

Devens Landfill

GTX #:

3544

Location: Devens, MA

Reference Laboratory Compaction Characteristics

Sample ID	Konan01	Konan02	Konan05		
Maximum Dry Density, lb/ft ³	132,9	114,8	123.3		
Optimum Moisture Content, %					

In-place Sand Cone Test Data

Test#	SC-3		
Date	06/18/02		
Test Hole Volume, ft ³	0.0279		
Wet Density, lb/ft ³	129.8		
Dry Density, lb/ft ³	120.0		
Water Content, %	8.2		
Reference Sample ID	Konan01		
Compaction, %	90		

Test Locations / Comments

Test#	Location	Comments
SC3	See Nuclear Gauge Density Report	Nuclear gauge test # 16
		170

Sand Cone ID: SC-C

Bulk Density of Sand, lb/ft3: 95.06

Mass of Sand to Fill Cone & Base Plate, lb: 1759

Proctor Method: ASTM D 1557

Moisture Content Method: ASTM D 2216

Field Monitor:

Client:

Stone & Webster

Project Name:

Devens Landfill

GTX #:

3544

Location: Devens, MA

Reference Laboratory Compaction Characteristics

Sample ID	Konan01	Konan02	Konan05			
Maximum Dry Density, lb/ft ³	132.9	114.8	123.3			
Optimum Moisture Content, %						

In-place Sand Cone Test Data

Test#	SC-4			
Date	06/20/02			
Test Hole Volume, ft ³	0.0304		N. T.	
Wet Density, lb/ft ³	117.4			
Dry Density, lb/ft ³	110.9			
Water Content, %	5.8			
Reference Sample ID	Konan05			
Compaction, %	90	-		

Test Locations / Comments

Test#	Location	Comments
SC4	See Nuclear Gauge Density Report	Nuclear gauge test # 15
1		

Sand Cone ID: SC-C

Bulk Density of Sand, lb/ft3: 95.06

Mass of Sand to Fill Cone & Base Plate, lb: 1759

Proctor Method: ASTM D 1557

Moisture Content Method: ASTM D 2216

Field Monitor.

Client:

Stone & Webster

Project Name:

Devens Landfill

GTX #:

3544

Location: Devens, MA

Reference Laboratory Compaction Characteristics

Treference Euseratory			/ Compaction of the action of			
Sample ID	Konan01	Konan02	Konan05			
Maximum Dry Density, lb/ft ³	132.9	114.8	123.3			
Optimum Moisture Content, %						

In-place Sand Cone Test Data

Test#	SC-6		
Date	07/02/02		
Test Hole Volume, ft ³	0.0253		
Wet Density, lb/ft ³	120.4		
Dry Density, lb/ft ³	111.0		
Water Content, %	8.5		
Reference Sample ID	Konan05		
Compaction, %	90		

Test Locations / Comments

Test#	Location	Comments
SC6	See Nuclear Gauge Density Report	Nuclear gauge test # 1

Sand Cone ID: SC-C

Bulk Density of Sand, lb/ft3: 95.06

Mass of Sand to Fill Cone & Base Plate, lb: 1759

Proctor Method: ASTM D 1557

Moisture Content Method: ASTM D 2216

Field Monitor:

Client:

Stone & Webster

Project Name:

Devens Landfill

GTX #:

3544

Location: Devens, MA

Reference Laboratory Compaction Characteristics

2000					
Sample ID	Konan01	Konan02	Konan05		
Maximum Dry Density, lb/ft3	132.9	114.8	123.3		
Optimum Moisture Content, %					

In-place Sand Cone Test Data

Test#	SC-10		
Date	07/09/02		
Test Hole Volume, ft ³	0.0255		
Wet Density, lb/ft ³	121.1		
Dry Density, lb/ft ³	112.5		
Water Content, %	7.6		
Reference Sample ID	Konan05		
Compaction, %	91		

Test Locations / Comments

Test#	Location	Comments
SC10	See Nuclear Gauge Density Report	Nuclear gauge test # 9

Sand Cone ID: SC-C

Bulk Density of Sand, lb/ft3: 95.06

Mass of Sand to Fill Cone & Base Plate, lb: 1759

Proctor Method: ASTM D 1557

Moisture Content Method: ASTM D 2216

Field Monitor:







Client:

Stone & Webster

Project Name: Project Location: Devens Landfill Devens, MA

Testing Location:

Project #:

GTX-3544

Date: Weather: 10/2/2002 Sunny, 80 F

Page:

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Reference Laboratory Compaction Characteristics (ASTM D 1557)

Sample ID	CONC-3	6.0	
Corrected Maximum Dry Density, pcf	128.0		
Corrected Optimum Moisture Content, %	9.4		

Field Compaction Test Results

Test #	Test Location	Moisture Content, %	Dry Density, pcf	Degree of Compaction, %	Reference Sample ID	Comments
1	11+75	7.8	127.7	99.8	CONC-3	AOC-40 Roadway
2	10+75	8.4	127.9	99.9	CONC-3	AOC-40 Roadway
3	9+75	9.9	126.0	98.4	CONC-3	AOC-40 Roadway
4	8+75	10.5	120.2	93.9	CONC-3	AOC-40 Roadway
4a	8+75	10.1	123.8	96.7	CONC-3	AOC-40 Roadway
6	8	9,5	134.6	105.2	CONC-3	AOC-40 Roadway

Method	Nuclear Density Gauge (ASTM D 2922/3017)	Sand Cone (ASTM D 1556)
Equipment ID	Siemens A382	

Notes:

6 inch gauge depth unless otherwise noted

Field Monitor:

Mr. Steven Petrella

On-Site:

1:00 PM

Mileage:

24 miles

Off-Site:

1:45 PM

Travel Time: